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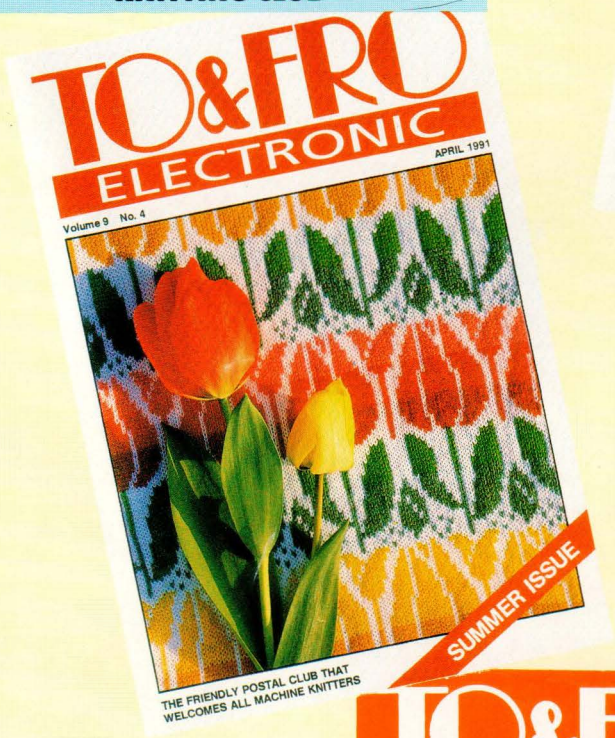

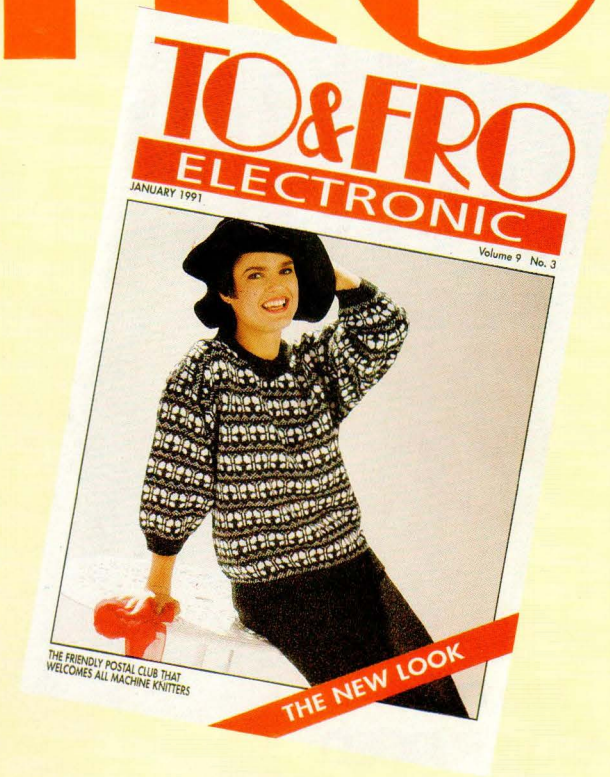

Also To & Fro Electronic — a quarterly magazine concentrating mostly on techniques and patterning for electronic machines. Designed as a complement to and not a replacement for To & Fro.

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FROM THE EDITOR

We have two exclusive offers this month for Modern Knitting readers. First, Silver Knitting Machines Ltd are again offering the chance to win one of their superb electronic knitting machines and this month it is the ***SK 890 chunky model*** *from their wonderful 'Modular System' range. You'll find full details of this valuable prize in our 'Five Square' Competition.*

Our second special offer comes from B. Hague & Co Ltd, with a generous saving on their ***'Tidy Tray'****. This is a well designed accessory for storing all your knitting bits and pieces around the knitting machine and will make a useful addition to anyone's knitting room.*

We continue our series for Silver Electronic readers – this month the patterning functions are explained in more detail, so if you never understood those 'point cams' and 'needle 1 cam', this is your chance to get in the know.

With summer well on the way, we've selected some special knitwear designs for you this month. The Tulip Pattern sweater, Embroidered Jacket and Lace and Flowers cardigan all have a floral theme, whilst for those who prefer a plainer garment there is the choice of stocking stitch with decorative neckline or crochet trim, plus a versatile ribbed sweater which can be knitted in your favourite colour. If you're looking for a 'special occasion' outfit, the Punch Lace Top & Skirt from the 'Silver Reed International Collection' is both smart and elegant.

Our regular features contain plenty of design ideas for all the latest inspiration on patterns and fabrics for your summer wardrobes and for those of you who like to add a bit of extra colour, Angela Gordon's tips for successful 'three colours in a row' knitting can be kept on file as a useful reminder.

We are planning a special 'advice' slot for ***Silver Reed owners*** *in future issues of* Modern Machine Knitting. *Kamalini Trentham will be offering her expert advice and help on any technical knitting queries relating to Silver Reed machines – both punchcard or electronic models, and these will be published for the benefit of others. To get started, please write your specific problem or query and address it to 'Silver Reed Queries', 3 Bridge Avenue, Maidenhead, Berks SL6 1RR.*

We'll be back next month with some great ideas for summer knitting! Until then . . .

SUE WATSON

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Editor Sue Watson.

Advertising Fiona Lewis (Tel: 0789 740430).

Stylist Annie Anderson.

Hair & Make Up Sue Sian.

Photography Francis Loney.

You can write to Modern Machine Knitting at the following address:-
3 Bridge Avenue,
Maidenhead, Berkshire SL6 1RR.
Our Telephone number is (0628) 770289.
Our Fax number is (0628) 777335.

KNITLINE

Metropolitan

Metropolitan is a unique Machine Knitting Centre set in the tranquil surroundings of rural Cheshire, yet only two miles from the historic town of Nantwich. The purpose-built centre is every Machine Knitter's dream, all under one roof. You will find a large range of knitting machines, yarn, books and accessories down to the smallest spare part. The shop and warehouse are all open to customers from 10am to 4pm – Monday to Saturday or by appointment. Residential courses from 1 to 10 days, Accreditated Correspondence Courses & Tutorial Videos are available. Knitting Clubs are held regularly and visiting Knitting Clubs are welcome by appointment.

What could be nicer than a knitting course in peaceful surroundings in the heart of rural Cheshire. Take your caravan – Metropolitan is also a licensed caravan site. Accommodation is available locally at Farmhouse Bed and Breakfast or if you prefer, there is a choice of Hotels. Plan a family holiday – you do the knitting – let the family discover the delights of Nantwich and surrounding areas: Stapeley Water Gardens, Bridgemere Wildlife Park and the historic town centre of Nantwich are all within a few miles, or it is only 18 miles to Chester City and Chester Zoo. Beeston Castle, Peckforton Castle and Cholmondeley Castle are also open to visitors.

Visiting lecturers include, **Joan Richards, Diane Bennett, John Allen, Susanna Lewis, Pam Turbett, Audrey Palmer, Pat Stanton, Ann Brown and Iris Bishop,** so the programme of events is numerous and varied. Cut and Sew, Double Jacquard, Ribber Courses, Specialist Brother and Silver Reed Electronic Courses and Suit Making Courses are just a few of the topics.

Metropolitan also have their very own Publishing Department which has produced nine titles of Machine Knitting books. The latest book being the long awaited reprint of **'A Machine Knitters Guide to Creating Fabrics'** by Susanna Lewis. There is also a Mail Order Department second to none with fast, efficient and friendly staff to ensure all orders are despatched within 24 hours of receipt. A **FREE** Mail Order Catalogue is available upon request.

All machines whether new or second-hand come guaranteed with a full course of lessons which gives you the confidence to explore machine knitting. If you wish to know more and are able to spend an hour or maybe a day browsing just call in.

FORTHCOMING EVENTS AT METROPOLITAN

Pam Turbett – Cut and Sew.
Is it a knitters dream to make a dress or suit using a dressmaking pattern on a cloth made from your knitting machine? This fascinating course allows you to bring a fabric created by yourself and with Pam's expert guidance to produce a garment especially for you all in one week. This course is highly recommended to the sewers of the knitting community.
Sewing machines required
Mon 27 April to Fri 1 May, 9.30am to 4.30pm. £85 for week. Ref: C75.

Joan Richards – Double Jacquard Week
Double Jacquard often poses problems so Joan is devoting an entire week to this subject. Joan has designed a number of garments for you to knit. You can set up you machine on the Sunday between 2pm and 6pm, knit your tension square and meet the other women, then spend the week knitting the garment of your choice. With Joan's supervision you cannot fail to have a success.
Machines are required
Sun 3 May to Fri 8 May, 9.30am to 4.30pm. £85 for week. Ref: C76.

Diane Bennett – PPD Course
Discover the possibilities of using PPD. Diane will show you how to set up and use the PPD for designing fabrics and garments. The use of the printer and disc drive will also be covered. You do not need to own a PPD for this course as arrangements could be made for you to watch. If you own a PPD then you will gain so much more from the day if you bring it along with you and work with Diane.
Tuesday 9 June, 10am to 4pm. £15. Ref: C78.

Diane Bennett – Electronic Knitting for Brother Owners
Electronic Course for owners of Brother 900, 910, 930, 940, 950 and 950i. This course will cover all aspects of programming these machines and knitting the variety of stitch patterns together with unusual saving ideas. A must for all owners of Brother Electronic machines.
Machines are required
Wed 10 to Fri 12 June, 10am to 4pm. £45 for three days. Ref: C79.

Susanna Lewis – Designing Highly Textured Fabrics
Susanna will give a slide show/lecture of about 1½ to 2 hours in length on the subject of Designing Highly Textured Fabrics. This should prove to be a most interesting and highly informative lecture which will be most enjoyable for all knitters.
Sun 21 June, 2pm. £3 per ticket. Ref: C80.

Susanna Lewis – Rib Jacquard Fabrics – a workshop
Rib Jacquard is the study of 'Double Bed Patterning' and fabrics made with two, three or four colours in a row. Included are types of punchcards and electronic setting required to knit these fabrics and the techniques needed for shaping them into garments. A variety of jacquard fabrics are included with practice in both all over patterning and motifs.
Machine, Ribber and Double bed Colour changer are required
Mon 22 June to Wed 24 June, 10am to 4pm. £75 for three days. Ref: C81.

Further courses are planned for the year which include guest speakers: **Valerie Kilford** – Intarsia, **Audrey Palmer** – Knitweave, **Ann Brown** – Posh Frocks, **Iris Bishop** – Designer, **John Allen** – Designer.

If you require information about any of the courses contact:

Metropolitan
The Pinfold
Poole
Nantwich
Cheshire CW5 6AL
Tel: 0270 628414

Canary Rock

Rowan have just introduced their spring/summer yarn collection featuring an exciting range of colours which include vibrant reds, sapphire blues and flaming pinks. The **'Canary Rock'** collection is inspired by the volcanic landscapes of the Canaries and offers a wide selection of cotton yarns. The latest addition to the range is **Nice Cotton**, a multi-ended mercerised cotton in eight shades – Rio, a burnt orange; Samba, a rich rust brown; three shades of 'tropical' green; plus Fiesta, Carnival and Adobe to add a touch of rich red, purple and deep earthy brown.

For a more muted and chunkier look, the **Wool and Cotton** range offers a soft yarn mix of super fine botany with Egyptian long staple cotton. Here there are some really lovely tones of Chocolate, Kashmir and Musk, plus four new shades – a bright rich red, Siva; Hibiscus blue; Rajasthan purple; and an olive green called Mandala.

Similar colours are reflected in the **Chunky and Fine Chenilles**, together with the unusual contrasts of larch, a silver blue, Broom yellow and Willow green.

Rowan's **DK Cotton** is available in a lovely palette of colours with some clear bright shades and there is further choice with the two shades of blue in the **Den-m-nit** Indigo dyed DK – a quality denim yarn designed to shrink and fade when washed. For a variety of bright, dark and pastel shades and a real sheen, the

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Cotton Glacé range will brighten up any knitwear – choose from Poppy, Gentian and Watermelon, Black, Night Shade and Granite plus beachy tones of Clay, Spice and Dijon. To complete the range there are two finer cottons – **Sea Breeze** in a selection of pastel shades and **Cabled Mercerised Cotton** in warm rich red tones as well as black.

The Rowan hand knitting yarn ranges really do offer a superb choice of colour and many of the qualities are suitable for machine knitting. Visit your local Rowan stockist for first hand information.

Summer Courses

The Summer University at Loughborough is holding a series of courses during the summer holidays.

Machine Knitting 26 July to 1 August. Tutor: **Bea Poulter**.

Patchwork 26 July to 1 August and 2 to 8 August. Tutor: **Sheila Scawen**.

The Pantomime Costume 26 July to 1 August. Tutor: **Zena King**.

Woven Textiles 26 July to 1 August. Tutor: **Janet Prince**.

Colombian Embroidery 2 to 8 August. Tutor: **Greta Fitchett**.

Tapestry Weaving 2 to 8 August. Tutor: **Helen Crosby**.

Sixteen page brochure and further information on all courses from:

Colin Groves
Centre for Extension Studies
Loughborough University
Leicestershire LE11 3TU
Tel: 0509 222189

Anne Kent and **Pauline Murphy** are hosting a **Machine Knitters' Day** on Saturday 2 May at Sanderstead, South Croydon. Guest Speakers will be Hazel Ratcliffe, Phillis Batchelor and Anne Kent. Admission is by programme only. Price £10.00 includes Coffee/Biscuits, Buffet Lunch, Tea/Cakes.

Programmes available from:

P. Murphy
51 West Hill
Sanderstead
Surrey CR2 0SB
Tel: Anne Kent,
081-657 5740

Pam Turbett's Cut and Sew 'Summer School' courses in Suffolk and Bucks.

For Cut and Sew enthusiasts, Pam Turbett will be teaching two 25 to 30 hour Summer school courses. Knit your own fabric, bring it along, with a paper pattern and a sewing machine and be guided through the entire making-up process of a coat, jacket, two-piece suit or dress. Comprehensive pre-course instructions will explain how to prepare the necessary knitted fabric and collect the haberdashery required.

Dates and venues: Suffolk College, Ipswich; 13 to 17 July. Tel: 0473 255885. Missenden Abbey, Gt. Missenden, Bucks; 2 to 8 August. Tel: 0494 89029, or contact Pam on 0730 893654.

Loraine McClean and **Angela Gordon** are organising some one week summer schools in Bournemouth. Loraine is the design tutor on their City and Guilds courses (hand and machine knitting) and she will be showing knitters how to obtain inspiration and interpret it in various ways for creating their own designs. Angela will then be showing the knitters how to convert this information into interesting stitch patterns and perfectly fitting garments. Computerised design methods will be demonstrated and available for students to use. The aim of the course is to allow knitters to spend one week designing and creating their own original garment.

The course for knitters with any machines will be held on 20 to 24 July and will be followed by one specifically tailored for electronic machine owners on 27 to 31 July. The cost is £45 per week, this does not include accommodation which should be organised separately.

Further details from Adult Education Centre, Tel: 0202 557131.

There will also be two weekend workshops at Walford Mill, Wimborne. 27 to 28 June – Knit a suit or dress. 26 to 27 September – Lace knitting. The cost is £25 per weekend.

Further details from The Mill, 0202 841400.

Angela is also considering running a course for the System 90 Intoshape (Clwyd Technics) programme, if enough people are interested a date can be organised. Send a SAE for details to:

Angela Gordon
29 St Helens Road
Sandford
Wareham
Dorset BH20 7AX

Jan Francis will be running one day workshops for Computer Aided Design, using DesignaKnit, in London. The course will be of interest for users of DesignaKnit, and anyone who would like hands on experience before buying DesignaKnit.

The dates for these courses are Friday 8 and 15 May, with other dates to be confirmed.

For further information contact:

Jan Francis
Knitwear Designs
140 St Asaph Road
Brockley
London SE4 2EN
Tel: 071-732 8282

Club corner

Maidenhead Machine Knitting Club meets at Alwyn School on the second Tuesday in the month. Telephone Phyllis on 0628 26714 or Sheila on 0628 28096 for further details. There will be some guest speakers coming in the next couple of months. **Anne Kent** on Tuesday 12 May and **Trisha Whitfield** on

6►

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Tuesday 9 June. Saturday 18 July will be a special Day, with guest speakers **Angela Gordon** who will talk on lace and designers **Terry Armitstead** and **Jane Huntingford** known as Close Knit.

Wellesbourne Knitting Club welcomes new members or anyone with an interest in machine knitting. Meetings take place in the Village Hall on the second Tuesday of each month. For further details contact: Marie Cox, 209 Dovehouse Drive, Bardolph Park, Wellesbourne, Warwicks.

Honor Oak Knitting Club meets on the last Thursday of the month from 7.00pm to 9.00pm. For more information ring Carol Rogers on 081-699 6099.

A change of venue for the **Derby and District Machine Knitting Club** who now meet on the first Thursday of the month at The Derby Tertiary College, Wilmonton, London Road, Derby. The meetings start at 7.30pm, new members and guest visitors are most welcome. For further information please ring Secretary – Gill Walker on Derby 704914 or Chairwoman – Franke White on Derby 675849.

The **Glen Dee** knitters hold their meetings at Hopkins Villa, Hopkins Passage, Welshpool, every four weeks on Thursday evenings at 7.30. They also have knitting classes some afternoons. Further information from Glen Dee, Tel: 0938 554233.

New Design Books

The recession has hit machine knitting as hard as anyone; many of us having to by-pass those delicious 'coffee-table' style pattern books for a while until we can once more afford their hefty price tags. Perhaps now is the time to turn our attention to one of the new players in the machine knitting publishing game, City Modules Ltd (CML), whose budget priced collections of patterns and artwork are both affordable and innovative.

Currently CML offers a choice of three books of garment patterns by designer Teresa Schiff and two collections of artwork for electronics, Intarsia work and with a proportion of designs suitable for punchcard machines.

The pattern books boast a unique **LARGE PRINT** option, plus a one-side only print feature which leaves masses of white space for knitters' own notes (no more trying to make out what you have scribbled in the margin). Each collection features ten patterns for all the family in a clear lay-flat format with transparent plastic covers to protect from machine oil and coffee stains.

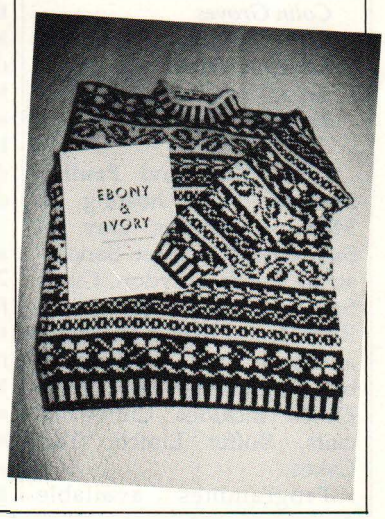
Each collection is aimed at a very specific niche market. **'LOOK – NO HANDS!'**, featured in our December issue, contains garter carriage patterns especially suitable

City and Guilds Machine Knitting

There will be an exhibition of students work at the Conference Centre, Swindon College, Ferndale Road, Swindon, on 4 June, 6.00 to 9.00pm and 5 June, 10.00am to 3.00pm.

For further information ring:

Beryl Henderson on 0793 521959 or Swindon College on 0793 613313.



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for those new to this attachment, but with plenty to inspire the more experienced knitter. It costs £3.95 and as the price includes p&p it has to be one of the year's best buys. **EBONY AND IVORY** is a celebration of that perennial fashion favourite, black and white, with designs that vary from a striking oversize plaid sweater, an ivory design with unusual slip stitch yoke and bands and Swiss-darned abstract art, to a child's 'blackboard' with a simulated chalk drawing of a tipsy looking cat. For men there is a stylish slip stitch shawl collared jumper and a black on black sideways knitted jacket in wool and chenille that will quickly find its way into girlfriends' wardrobes. **EBONY AND IVORY** follows the same format as 'Look - No Hands' and its wealth of punchcard designs can be used for other projects. Good value at £4.95 inc p&p, and every design is eminently wearable.

FINE PRINT, their latest release, is for all those knitters with standard gauge machines who thought **EBONY AND IVORY** an enviable idea. All new patterns, but with a wider selection of weights of yarn for all season suitability, and with styles from the simplest and most stylish to high drama pieces for electronics. Once again the **LARGE PRINT** option is a feature which has already brought a lot of knitters into the CML order book, and at £5.50 inc p&p this summer knitting at 'pick-your-own' prices.

For knitters who are happy to use their own garment shapes but crave a decorative inspiration, CML's artwork collections are fantastic value for page after page of charted designs directly traceable to Brother electronic sheets and easily used by all knitters to give their work an individual look. Reflecting the strong oriental interest of 91/92, **EASTERN PROMISE** is more than twenty pages of designs taken from many different types and styles of oriental art and craftwork at only £3.95. From tiny borders to stunning samurai, perfect pandas, wild horses, glorious geishas, storks and symbols, there is dramatic proof that there is life beyond the 'Willow Pattern'. In loose leaf format contained in a clear plastic wallet, these are designs to use again and again, singly or in a combination, wherever you want to catch the eye and the compliments.

Once again in exotic lands, **PRIMOTIF** is a collection of motifs and artwork from tribal cultures around the world; strong, simple, dramatic, and very much echoing the current preoccupation with all things ethnic. From the North American Indian via Africa, Australia and the Inuit, ancient crafts here lend their magic to our more modern pursuits. Almost thirty pages of art for only £4.25 and as with 'Eastern Promise' copyright free for all those who knit for a profit.

Please make cheques payable to CML, state on the back if large print is required and send to:

City Modules Limited
244 Shrub End Road
Colchester CO3 4SA

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VISA

BARN OWL

Design by GARY KENNEDY (INTARSIA)

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MS (Blue) – 4 (6, 8, 9, 10, 11) ×50 grm balls
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Col 3 (Sand) – 1×50 grm ball.
Col 4 (Pale Yellow) – 1×50 grm ball.

TENSIONS:
Intarsia and Stocking Stitch – 28 sts and 40 rows to 10 cms. TD at approx 7 (MT).
1×1 Rib – 50 rows to 10 cms. TDs at approx MT – 4.

PATTERN NOTE:
Intarsia – see chart.

If you have any problems locating Patons 4 ply Wool, please write to the address below for local stockist and mail order information. Please quote this issue of *Modern Machine Knitting*.

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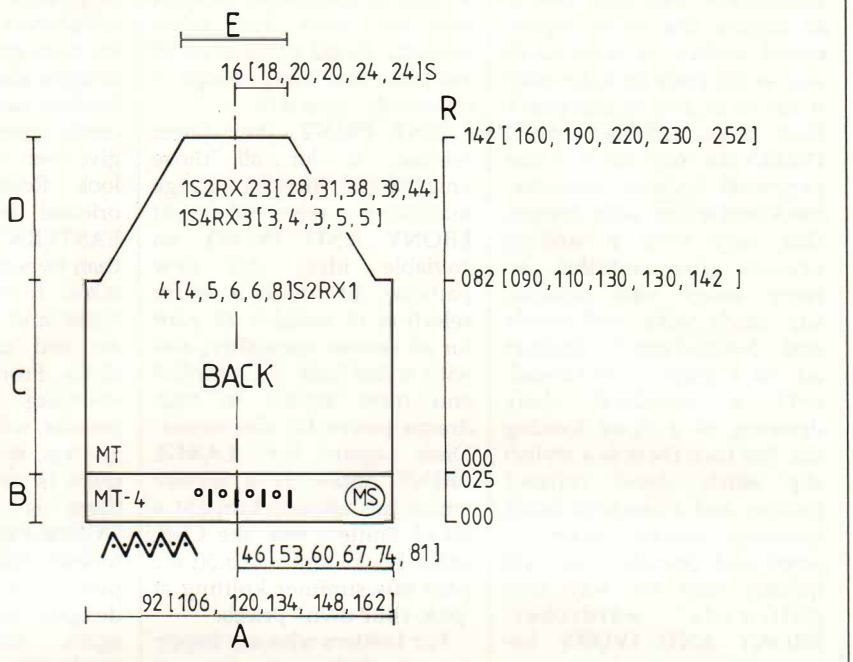

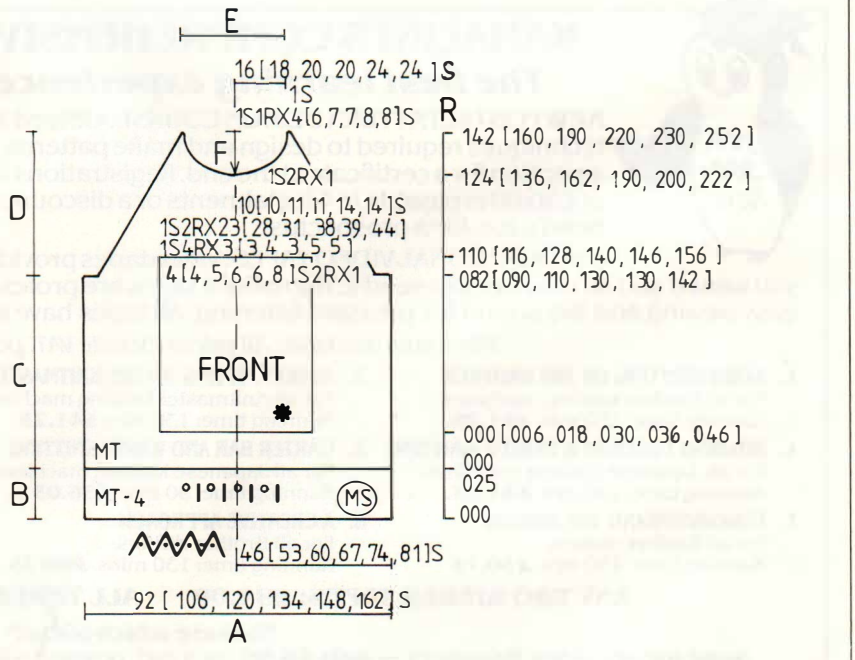

BACK
With ribber in position and carriage at left, set machine for 1×1 rib. Push 46 (53, 60, 67, 74, 81) Ns at left and right of centre 0 to WP. 92 (106, 120, 134, 148, 162) Ns. Push corresponding Ns on ribber to WP. Arrange Ns for 1×1 rib. Using MS, cast on and K 3 circular rows. Carriage is at left. Set carriage for 1×1 rib knitting. Set RC at 000. Using MT – 4, K 25 rows. Transfer sts to knitter. Set RC at 000. Using MT, K to row 82 (90, 110, 130, 130, 142).

Shape Raglan Armholes
Shape as shown on diagram to row 142 (160, 190, 220, 230, 252). Cast off 32 (36, 40, 40, 48, 48) sts.

FRONT
K as for back to row 0 (6, 18, 30, 36, 46) above welt. Cont in intarsia patt from chart over centre 90 Ns. K to row 82 (90, 110, 130, 130, 142).

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◀8

Shape Raglan Armholes
Shape as shown on diagram to row 110 (116, 128, 140, 146, 156). Cont in st st and MS. Shape as shown on diagram to row 124 (136, 162, 190, 200, 222).

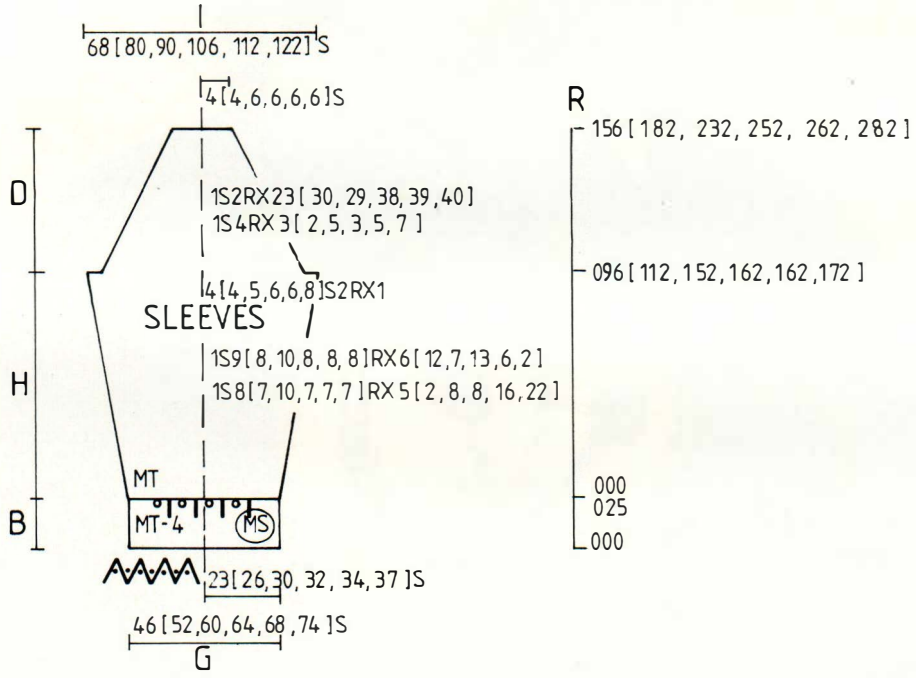
Shape Neck
Shape as shown on diagram to row 142 (160, 190, 220, 230, 252). Cast off rem st. K left part as for right part.

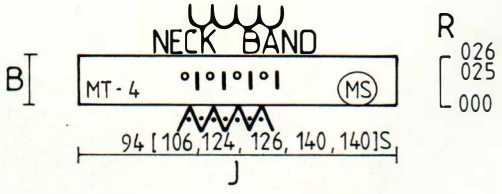
SLEEVES
With ribber in position and carriage at left, set machine for 1×1 rib. Push 23 (26, 30, 32, 34, 37) Ns at left and right of centre 0 to WP. 46 (52, 60, 64, 68, 74) Ns. Push corresponding Ns on ribber to WP. Arrange Ns for 1×1 rib. Using MS, cast on and K 3 circular rows. Carriage is at left. Set carriage for 1×1 rib knitting. Set RC at 000. Using MT−4, K 25 rows. Transfer sts to knitter. Set RC at 000. Using MT, shape as shown on diagram. 68 (80, 90, 106, 112, 122) sts. K to row 96 (112, 152, 162, 162, 172).

Shape Raglan Top
Shape as shown on diagram to row 156 (182, 232, 252, 262, 282). Cast off rem 8 (8, 12, 12, 12, 12) sts.

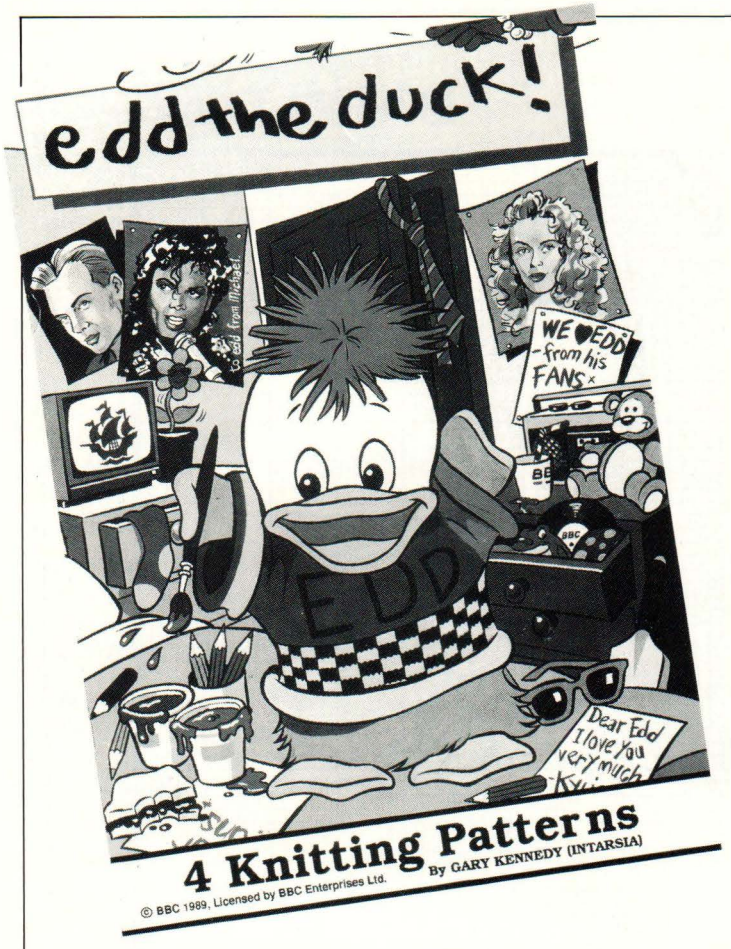
NECKBAND
With ribber in position and carriage at left, set machine for 1×1 rib. Using MS, cast on 94 (106, 124, 126, 140, 140) sts in 1×1 rib. K 3 circular rows. Carriage is at left. Set carriage for 1×1 rib knitting. Set RC at 000. Using MT−4, K 25 rows. Transfer sts to knitter. K 1 row. Using WY, K a few rows and release from machine.

TO MAKE UP
Press lightly, following instructions on ball band. Join raglan, side and sleeve seams. Backstitch neckband into position and join centre back seam. Fold in half and catch down on inside. Give final light steam.





A = 32.5 [37.5, 42.5, 47.5, 52.5, 57.5] CM	F = 4.5 [6, 7, 7.5, 7.5, 7.5] CM
B = 5 CM	G = 16 [18.5, 21, 22.5, 24, 26] CM
C = 20.5 [22.5, 27.5, 32.5, 32.5, 35.5] CM	H = 24 [28, 38, 40.5, 40, 5, 43] CM
D = 15 [17.5, 20, 22.5, 25, 27.5] CM	I = 24 [28.5, 32, 37.5, 40, 43.5] CM
E = 11 [12.5, 14, 14, 17, 17] CM	J = 33.5 [37.5, 44, 45, 50, 50] CM


edd the duck!
WE ♥ EDD -from his FANS x
Dear Edd I love you very much
4 Knitting Patterns
By GARY KENNEDY (INTARSIA)
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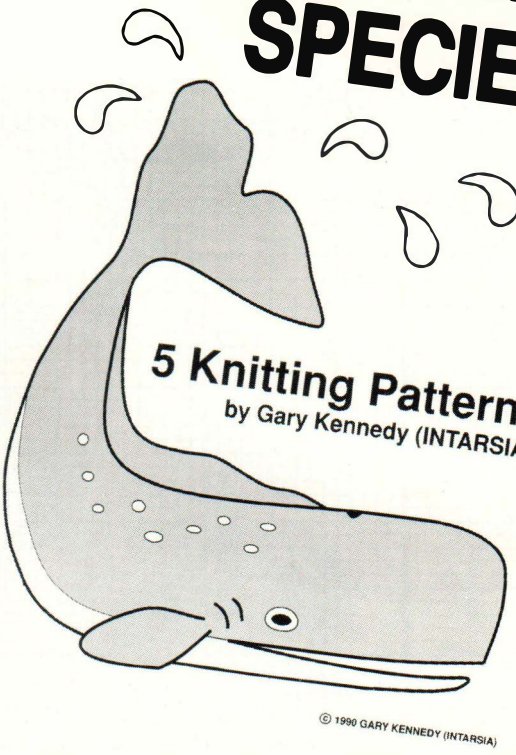
ENDANGERED SPECIES



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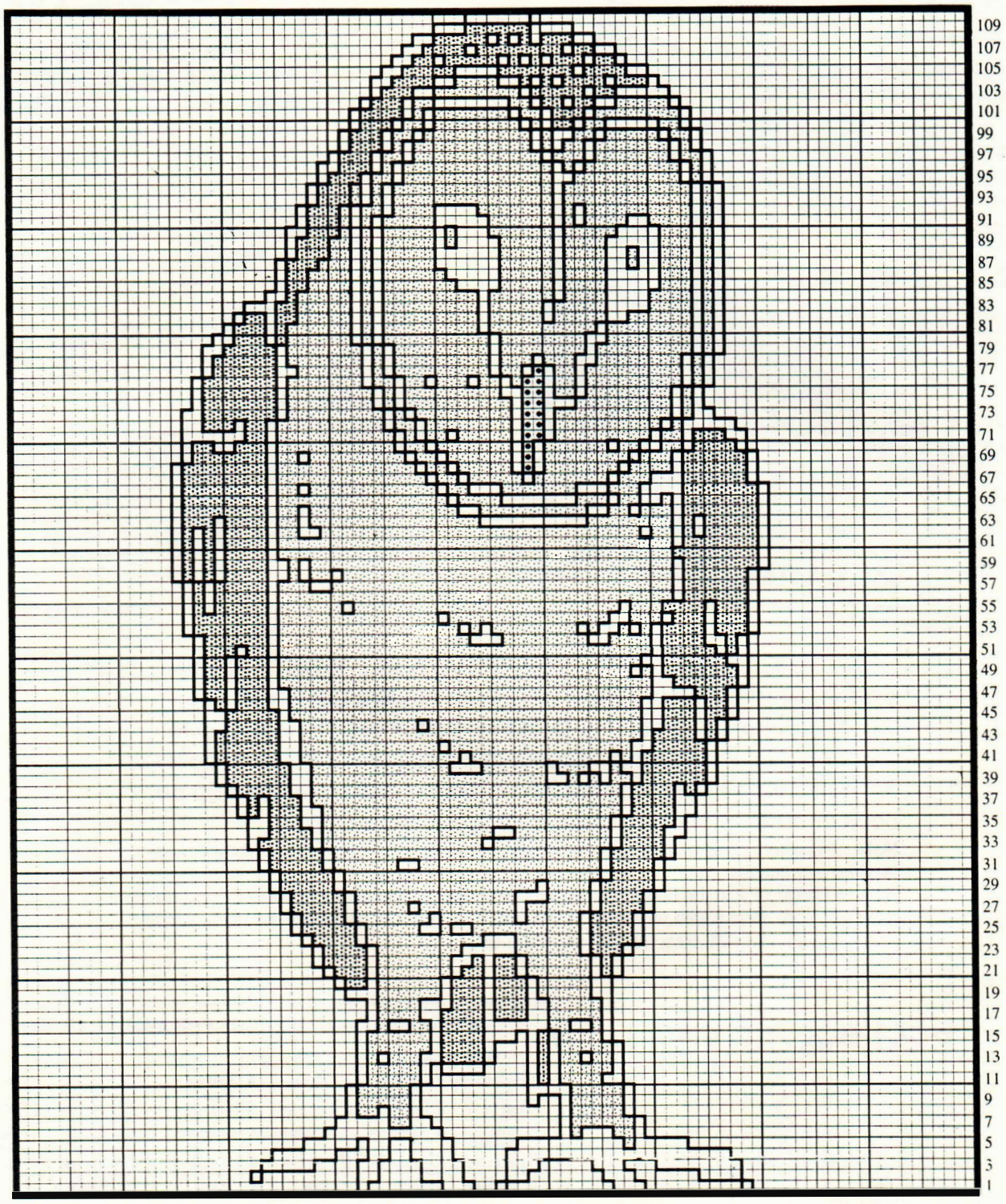

KEY

MS

Black

White

Sand

Pale Yellow

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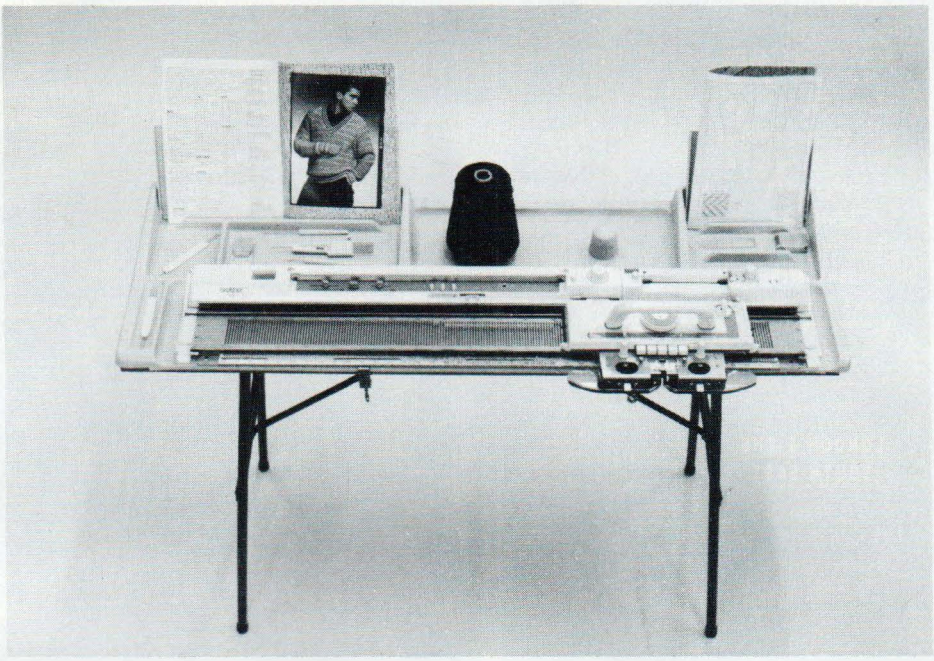

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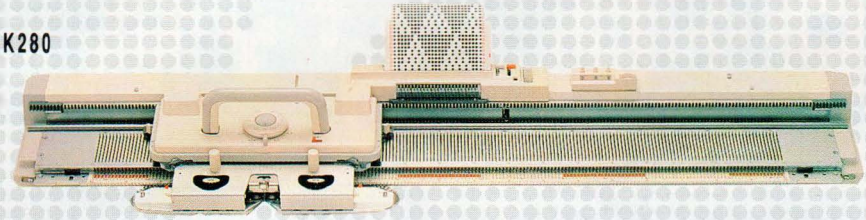

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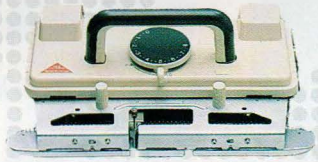

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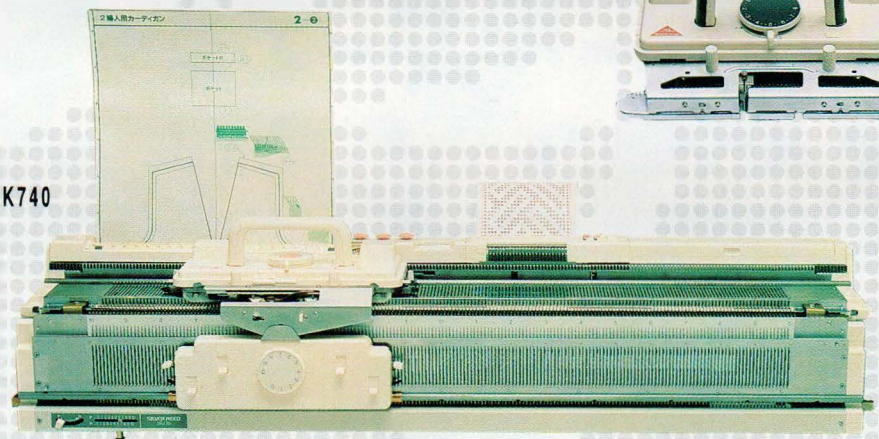

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By **A**ngela **G**ordon

We can easily and automatically produce many attractive 'two colours in a row' patterns on our machines using the Fair Isle setting and, by changing background and contrast colours, achieve a variety of clever and interesting pattern effects. But sometimes, a design can be enhanced by the use of additional colour within the individual rows. Although 'three colours in a row' knitting technique requires a little more understanding and time to prepare, the results can be quite stunning!

Fair Isle as we know it on our punchcard and electronic machines is worked with two colours knitting simultaneously. We have only two yarn feeders on the sinker plate and needles have only two working positions when patterning, therefore, using the standard Fair Isle method, only two colours can be knitted in any one row.

This can be varied by manually knitting certain stitches in a third colour and placing those needles into hold whilst the remainder of the row is knitted. The needles are then returned to working position before continuing with the knitting. This method works very well for small areas of a third colour (or even several other colours) but would be very laborious worked over an entire sweater.

Another alternative is to Swiss darn the extra colours after you have completed the knitting. This can be very effective, especially if used with thicker and/or textured yarns to give a more three dimensional effect. Swiss darning can be a very pleasurable and satisfying pastime if you enjoy the technique and it is certainly the easiest one to use where there are more than four colours across a row. I have seen some very expensive imported sweaters with complex multi-coloured designs, that initially appeared to be Intarsia, but on closer inspection proved to be entirely Swiss darned.

Automatic Fair Isle is really a form of slip stitch whereby the stitches are either knitted or slipped by the main colour. The contrast yarn knits the stitches which were slipped by the main yarn and slips past the stitches which have been knitted by the main yarn. Relating this to the punchcard/mylar sheet and needles, the blanks (needles selected to normal working position) are knitted in main yarn and slipped by the contrast and the holes (needles selected to upper working position) are knitted by the contrast yarn and slipped by the main yarn.

Please note that Silver Reed machines do select needles to working and upper working position, it is just that it happens as the carriage passes the needles. If you have never seen this happen, remove the sinker plate from your carriage, set the cam to Fair Isle with an appropriate card in the reader and just take the carriage across a group of needles which are in working position. You will be able to see the needle selection as it happens.

To knit three or four colours in a row we have to use the slip stitch setting and punch out a card so that on each row it will select only those needles which are to knit in the colour which is currently in the feeder (only one colour at a time just like any slip stitch pattern). This may seem an unusual way to produce Fair Isle for anyone who has only knitted on modern Japanese machines. However, it is the method used by the older machines which relied on hand selection and is also the only method of producing single bed Fair Isle on a Passap/Pfaff knitting machine.

Punchcard production for single bed 'three colours in a row' knitting is very similar to the method used for producing double Jacquard punchcards, in fact the punchcards could be used for knitting double Jacquard and vice versa. Double Jacquard is really one slip stitch with needles working on both beds after all!

To start with we need a pattern which has two row progressions, that is two identical rows. The illustrated sample was knitted from a punchcard which I adapted from a two colour Fair Isle pattern – chart one, into a three colour slip stitch pattern.

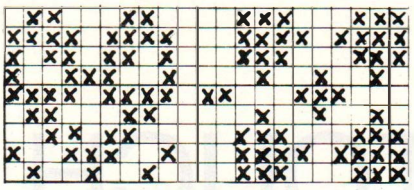
Chart two shows the same pattern with every row doubled up – the same effect could be achieved by using the elongation lever on your machine. It is best to work from a double graph to help understand what is happening. We always have to knit two rows in each colour so that we return to the side where we can collect the next colour. It is possible to work single rows but it would involve breaking off the yarns frequently to carry them to the opposite end of the machine.

At this stage it is vital to produce your stitch graph in colour so that you can see exactly what will happen in a knitted swatch and adjust where

18▶

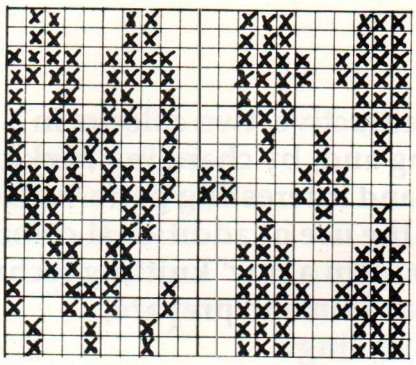
◀17

1



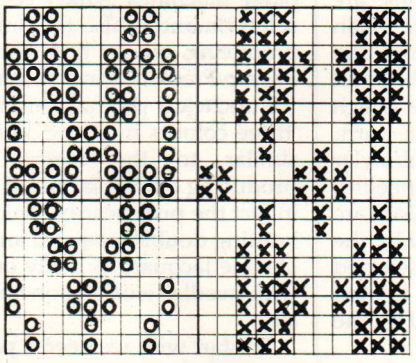
Original 2 Colour Pattern

2



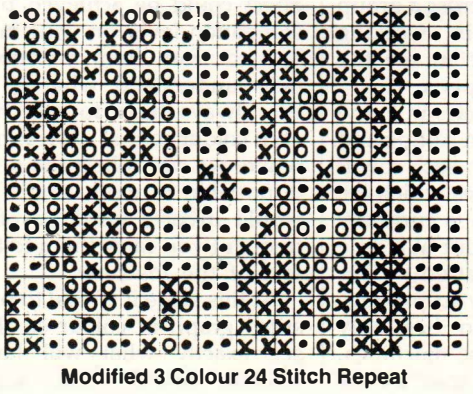
Pattern Double Length

3



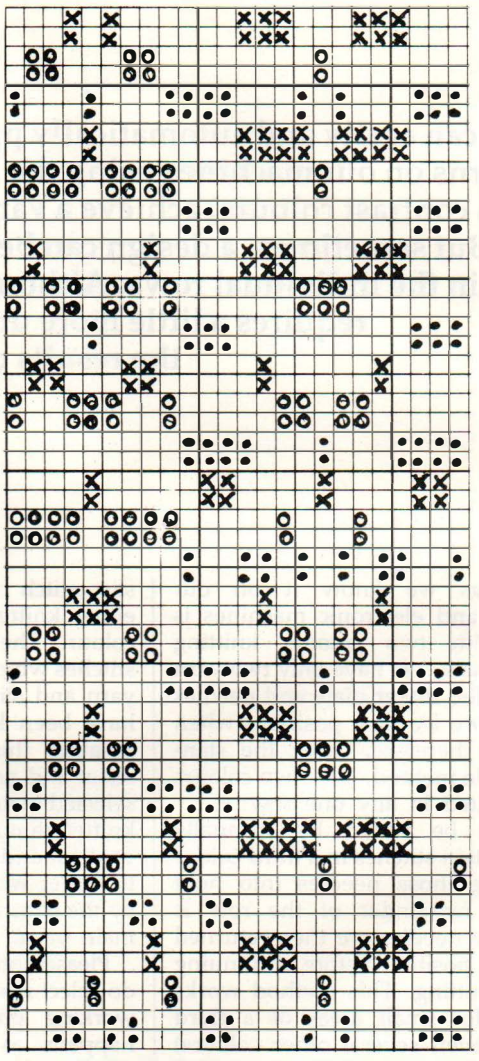
Pattern in 3 Colours
(2 ply base yarn)

4



Modified 3 Colour 24 Stitch Repeat

5



Final 3 Colour Separation

KEY:
× = Colour 1.
○ = Colour 2.
● = Colour 3.

necessary. These cards take a lot of punching and time spent now will be saved at the final stage of colour separation.

Chart three shows the pattern with the two contrasting colours, plus a background colour and you can see that there are now three colours in each row. The punchcard could be produced from this chart as it is, but there is the ever present Fair Isle problem – floats! Although this pattern had reasonably short floats when knitted as two colour Fair Isle, by knitting the separate motifs in different colours we have created long floats. Look carefully and you will see that the purple has to be carried all the way across the back of the green motif and the green all the way across the back of the purple.

In chart four I have modified the pattern to include areas of purple within the green motif and areas of green within the purple motif. The long floats have now been minimised whilst keeping the definition as much as possible. I have also, at this stage made the pattern into a 24 stitch repeat so that it can be used on punchcard machines (should you have 12 stitch repeat you will have to use just one motif or repeat the second one above the first).

Now for the tricky part – separating the colours in each two row sequence. Have a sheet of paper to cover up the rows above the first two and mark those first. On rows 1 and 2 mark only the stitches which should knit in the background yarn. Rows 3 and 4 mark the stitches which will knit in green (contrast 1) and rows 5 and 6 mark the stitches which will knit in purple (contrast 2). Look closely at the six rows you have just marked and you should have two marks in every vertical column, therefore if the six rows were compressed into two, every vertical column would be punched out. There should not be more than two marks in each column or you have made a mistake.

As you knit two rows in each colour the stitches will slot together so that after six carriage passes you have only knitted two complete rows. Imagine that you have 48 (24 stitches by two rows) building bricks in three colours, line up the mustard ones according to the chart, now slot in the green ones and finally the purple ones and you have 48 bricks arranged in pattern. If you had put two bricks into the wrong column there would be one column with four bricks and another with none!

Continue marking out each two row sequence in turn until you have completed the pattern. Your punchcard should have three times the number of rows in your three colour chart.

Knitting a sample or garment is greatly speeded up with the use of a colour changer. If you have one, thread it up and use it to change colour every two rows. If not you'll have to change colour manually every two rows. To knit a sample, cast on 70 stitches and knit a few rows in main yarn. Memorise the pattern on the last row to the left. Release the card and knit in the three colour sequence starting with two rows in the background yarn. My sample has stripes between each pattern repeat, these can be incorporated into your punchcard by having completely punched rows (two for every two row stripe) after the pattern.

The yarns used are pure wool 4 ply and cotton Chenille. The Chenille adds an extra dimension with its lovely texture and washes compatibly with the pure wool. Now you have seen how to do it, have a go at converting some of your favourite patterns and add some extra colour, it is especially effective for flowers when you can use different shades to add depth.

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THE SWATCH SPOT

By Angie
Knitwear By Design

Continuing the 'versatility' theme from last month, I have developed four more ideas using knitted cords and beads. These designs are 'versatile' because they can be used in a number of ways. Knit design number 1 as shown on the swatch for the front panel of a jumper, or omit the backing fabric and knit the cords in the lattice work formation, using a glitter yarn with pearls for a stunning back on evening wear. Design number 2 looks very effective when worked as deep fringing on an evening jacket or big sweater – alternatively, use the idea to decorate a neckline creating a 'necklace' effect.

In design numbers 3 and 4 the Fair Isle fabric can be used on either side. Design number 3 is suitable for adding a finishing touch to a yoke on a cardigan – for a jumper or jacket, work in black and white, adding two or three beads to join each cord for an ethnic look. The threaded cords in design number 4 can be both decorative and functional if you need to add gathers to waist or cuff. Alternatively the idea can be used as a feature fastening around a neckline. A patterned cord threaded through plain knitting is another simple way of adding interest and texture to a plain garment.

I hope that you will experiment and produce your own variations. There are so many ways to use cords and beads that I'm sure you will soon be creating some very individual and stunning garments to add to your wardrobes.

FABRIC INSTRUCTIONS

Yarn Used:
Brockwell Yarns Mercerised Cotton 2, 3 and 4 ply (see individual swatch instructions).

Beads: Those used on the illustrated swatches are 9mm Barrel Beads made in the USA by 'The Beadery' Craft Products, and available in the UK from most craft, fabric or wool shops.

SWATCH 1
(For Standard Gauge Punchcard and Electronic Machines)

Col 1 – Natural (3 ply)

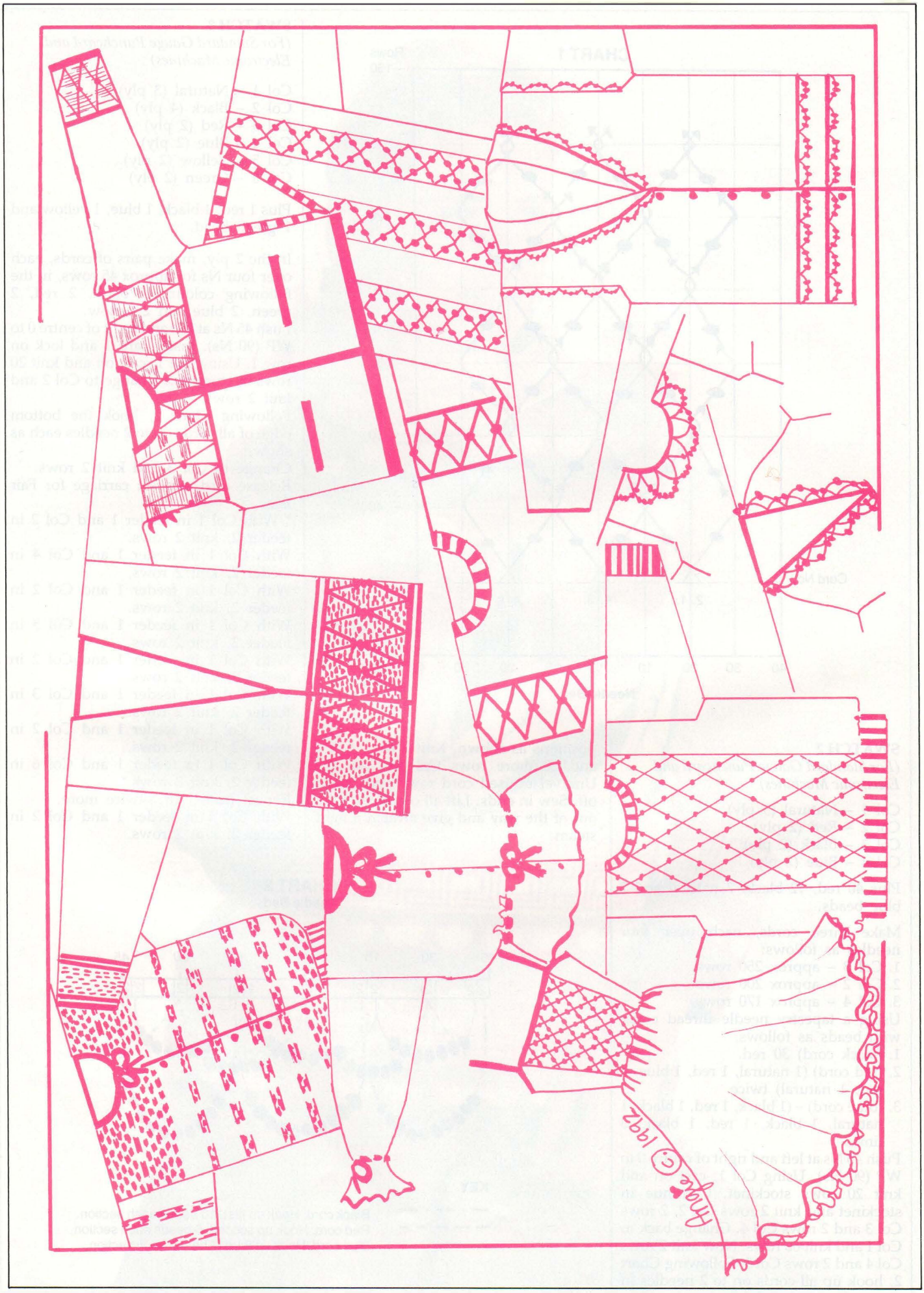
Col 2 – Black (4 ply)

Plus 9 beads in each of the following colours: red, green, yellow and blue.

Cords: Knit six cords over 4 needles (using the circular method as described in your knitting machine manual), each approximately 300 rows long.
Thread beads on to the cords as follows:
1. (1 red, 1 blue) 3 times.
2. (1 yellow, 1 green) 3 times.
3. (1 blue, 1 red) 3 times.
4. (1 green, 1 yellow) 3 times.
5. (1 red, 1 green) 3 times.
6. (1 yellow, 1 blue) 3 times.

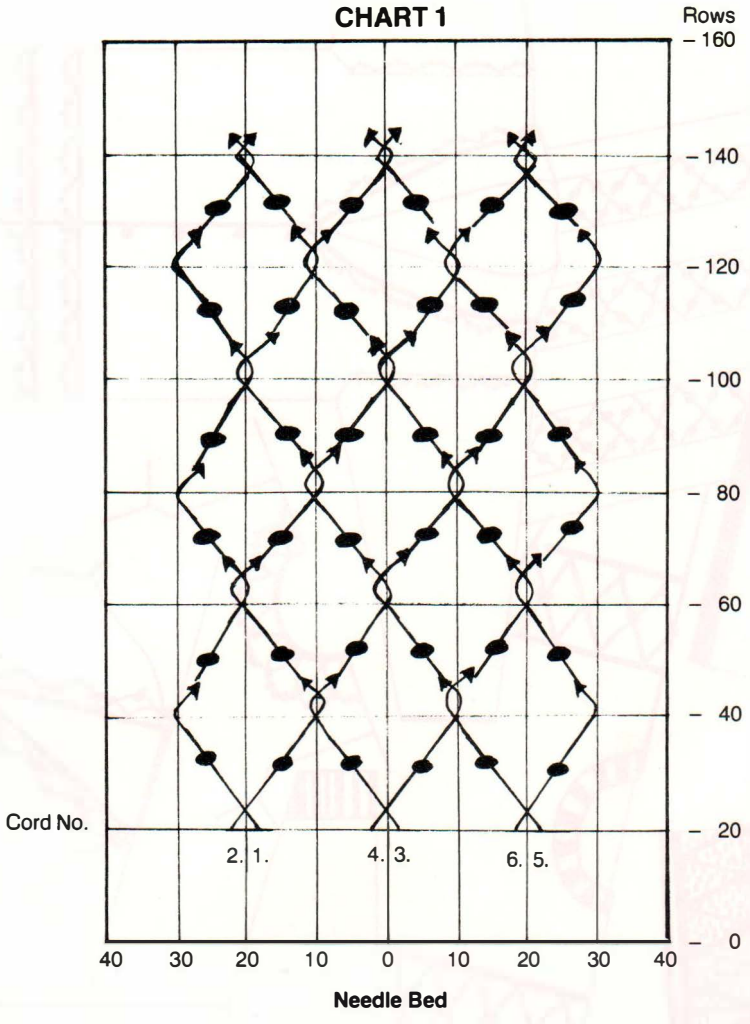
Push 40 Ns at left and right of centre 0 to WP (80 Ns). Using Col 1, cast on and knit 20 rows in stockinet.
Following Chart 1, hook the bottom of all cords on to 2 Ns each, positioned on the needle bed as indicated.
* With Col 1 in Feeder 1 only, knit 20 rows. Following Chart 1, slide the first bead on each cord down, twist the cords and hook up each cord on to one needle as indicated. Repeat from *, sliding down next bead and twisting cords as shown on Chart 1 until the final hook up row (there may be some cord left over). With Col 1 in feeder 1 only, knit 20 more rows. Cast off. Unravel unused cord rows and fasten off. Sew in ends. Give swatch a light steam on wrong side of work, taking care not to flatten cords.

22►



◀20

CHART 1



SWATCH 2
(For Standard Gauge Punchcard and Electronic Machines)

Col 1 – Natural (3 ply)
Col 2 – Red (2 ply)
Col 3 – Black (2 ply)
Col 4 – Blue (2 ply)

Plus 40 red, 12 black, 7 natural and 2 blue beads.

Make three cords, each over four needles as follows:
1. Col 3 – approx 250 rows
2. Col 2 – approx 200 rows
3. Col 4 – approx 170 rows

Using a tapestry needle thread cords with beads as follows:
1. (black cord) 30 red.
2. (red cord) (1 natural, 1 red, 1 blue, 1 red, 1 natural) twice.
3. (blue cord) – (1 black, 1 red, 1 black, 1 natural, 1 black, 1 red, 1 black) 3 times.

Push 45 Ns at left and right of centre 0 to WP (90 Ns). Using Col 1, cast on and knit 20 rows stockinet. Continue in stockinet and knit 2 rows Col 2, 2 rows Col 3 and 2 rows Col 4. Change back to Col 1 and knit 60 rows. Now knit 2 rows Col 4 and 2 rows Col 3. Following Chart 2, hook up all cords on to 2 needles in positions as shown. Knit 2 rows Col 2 and 20 more rows Col 1. Cast off. Unravel unused cord rows and fasten off. Sew in ends. Lift all cords carefully out of the way and give swatch a light steam.

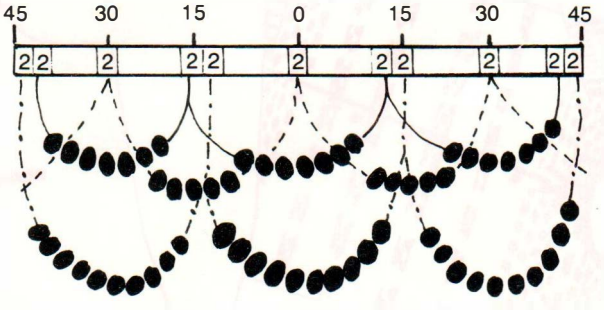
SWATCH 3
(For Standard Gauge Punchcard and Electronic Machines)

Col 1 – Natural (3 ply)
Col 2 – Black (4 ply)
Col 3 – Red (2 ply)
Col 4 – Blue (2 ply)
Col 5 – Yellow (2 ply)
Col 6 – Green (2 ply)

Plus 1 red, 1 black, 1 blue, 1 yellow and 1 green bead.

In the 2 ply, make pairs of cords, each over four Ns for approx 45 rows, in the following colours: 2 black, 2 red, 2 green, 2 blue and 2 yellow.
Push 45 Ns at left and right of centre 0 to WP (90 Ns). Insert card 1 and lock on row 1. Using Col 1, cast on and knit 20 rows in stockinet. Change to Col 2 and knit 2 rows.
Following Chart 2, hook the bottom edge of all cords on to 2 needles each as shown.
Change to Col 3 and knit 2 rows.
Release card and set carriage for Fair Isle.
* With Col 1 in feeder 1 and Col 2 in feeder 2, knit 2 rows.
With Col 1 in feeder 1 and Col 4 in feeder 2, knit 2 rows.
With Col 1 in feeder 1 and Col 2 in feeder 2, knit 2 rows.
With Col 1 in feeder 1 and Col 5 in feeder 2, knit 2 rows.
With Col 1 in feeder 1 and Col 2 in feeder 2, knit 2 rows.
With Col 1 in feeder 1 and Col 3 in feeder 2, knit 2 rows.
With Col 1 in feeder 1 and Col 2 in feeder 2, knit 2 rows.
With Col 1 in feeder 1 and Col 6 in feeder 2, knit 2 rows.*
Repeat from * to * twice more.
With Col 1 in feeder 1 and Col 2 in feeder 2, knit 2 rows.

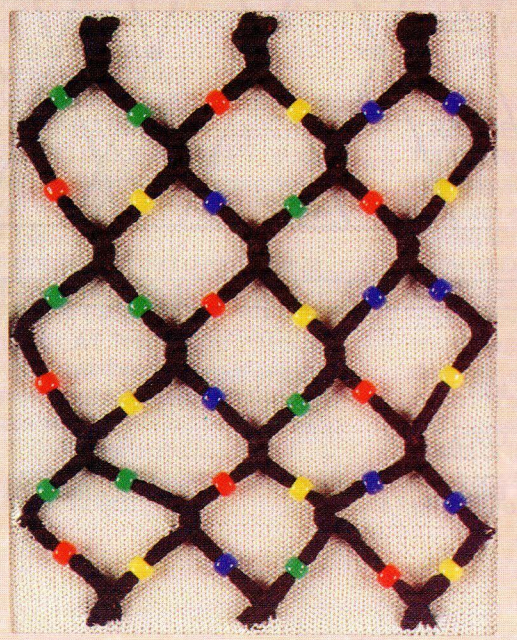
CHART 2
Needle Bed

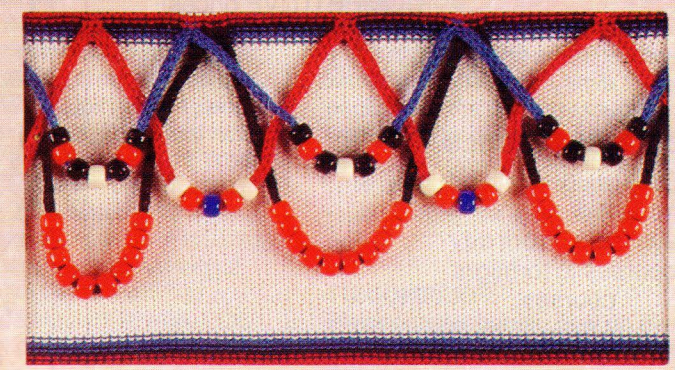


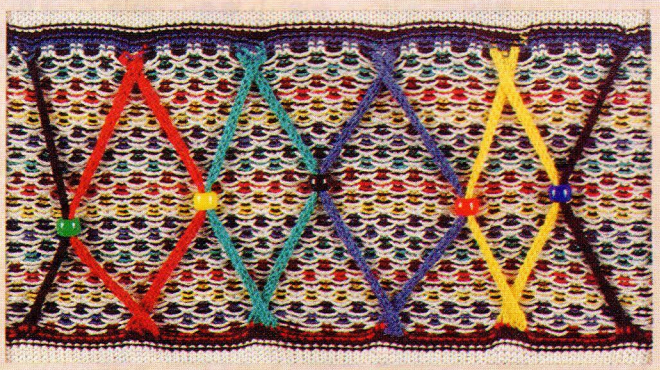
KEY

Black cord. Hook up first. 10 beads each section.
Red cord. Hook up second. 5 beads each section.
Blue cord. Hook up third. 7 beads each section.

24▶







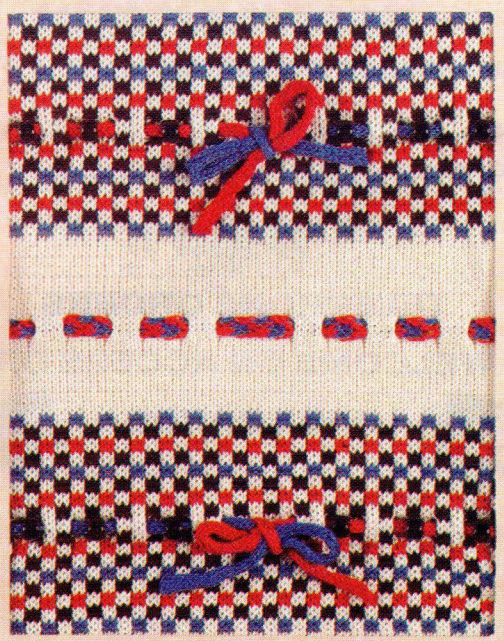


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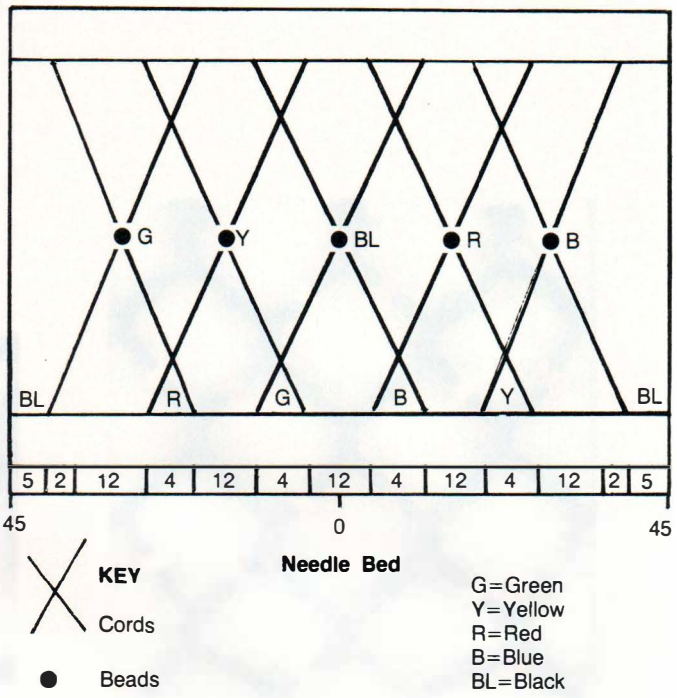
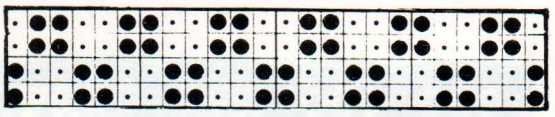
CHART 3



KEY
Cords
Beads

G=Green
Y=Yellow
R=Red
B=Blue
BL=Black



Card 1
Swatch 3 – 48 rows required
Swatch 4 – 18 rows required

Electronic Card 1

Following Chart 3, thread beads on to cords and hook up cords as shown.
Set carriage for stockinet and knit 2 rows Col 4, 2 rows Col 2 and 20 rows Col 1. Cast off. Unravel unused cord rows and fasten off. Sew in ends. Give swatch a light steam on wrong side of work, taking care not to flatten cords.

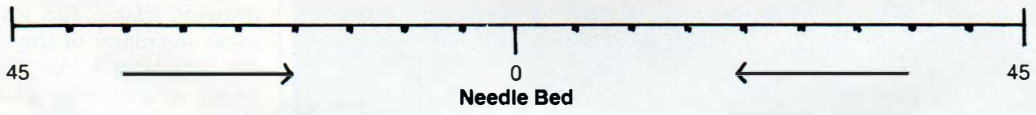
SWATCH 4
(For Standard Gauge Punchcard and Electronic Machines)

Col 1 – Natural (3 ply)
Col 2 – Blue (2 ply)
Col 3 – Black (2 ply)
Col 4 – Red (2 ply)

Plus 12 black beads.

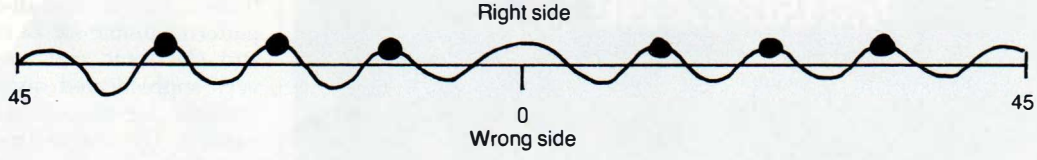
Make two red and two blue cords – each in 2 ply used double stranded over 4 Ns for approx 250 rows. For the centre cord, knit approx 100 rows in pattern from card 1 – with Col 2 in feeder 1 and Col 4 in feeder 2 throughout.
Push 45 Ns at left and right of centre 0 to WP (90 Ns). Insert card 1 and lock on row 1. Using Col 1, cast on and knit 20 rows stockinet.
** Release card and set carriage for Fair Isle.
* With Col 1 in feeder 1 and Col 2 in feeder 2, knit 2 rows.
With Col 1 in feeder 1 and Col 3 in feeder 2, knit 2 rows.
With Col 1 in feeder 1 and Col 4 in feeder 2, knit 2 rows.
With Col 1 in feeder 1 and Col 3 in feeder 2, knit 2 rows.*
Repeat from * to * once more.
Reset card 1 to row 3 and lock.
Set carriage for stockinet.
*** Following Chart 4, transfer sts as shown and push empty Ns to NWP. Knit one row Col 1. Return all Ns to WP. Knit one row Col 1.***
Release card and set carriage for Fair Isle.
Work 16 rows in Fair Isle pattern changing colours in feeder 2 in reverse order to first rows of pattern.**
Reset card to row 1 and lock.
Set carriage for stockinet.
With Col 1 in feeder 1 only, knit 16 rows.
Repeat from *** to ***.
With Col 1 in feeder 1 only, knit 16 rows.
Repeat from ** to **.
Remove card and set carriage for stockinet.
With Col 1 in feeder 1 only, knit 20 rows. Cast off.
Following Chart 5, thread all cords as shown, AT THE SAME TIME, thread beads on to the red and blue cords between each set of holes on the right side of the swatch.
Unravel unused cord rows and fasten off. Sew in ends. Give swatch a light steam on wrong side, taking care not to flatten cords. Tie cords into bows on right side to finish.

CHART 4



● =1 stitch. Transfer in direction of arrows.

CHART 5

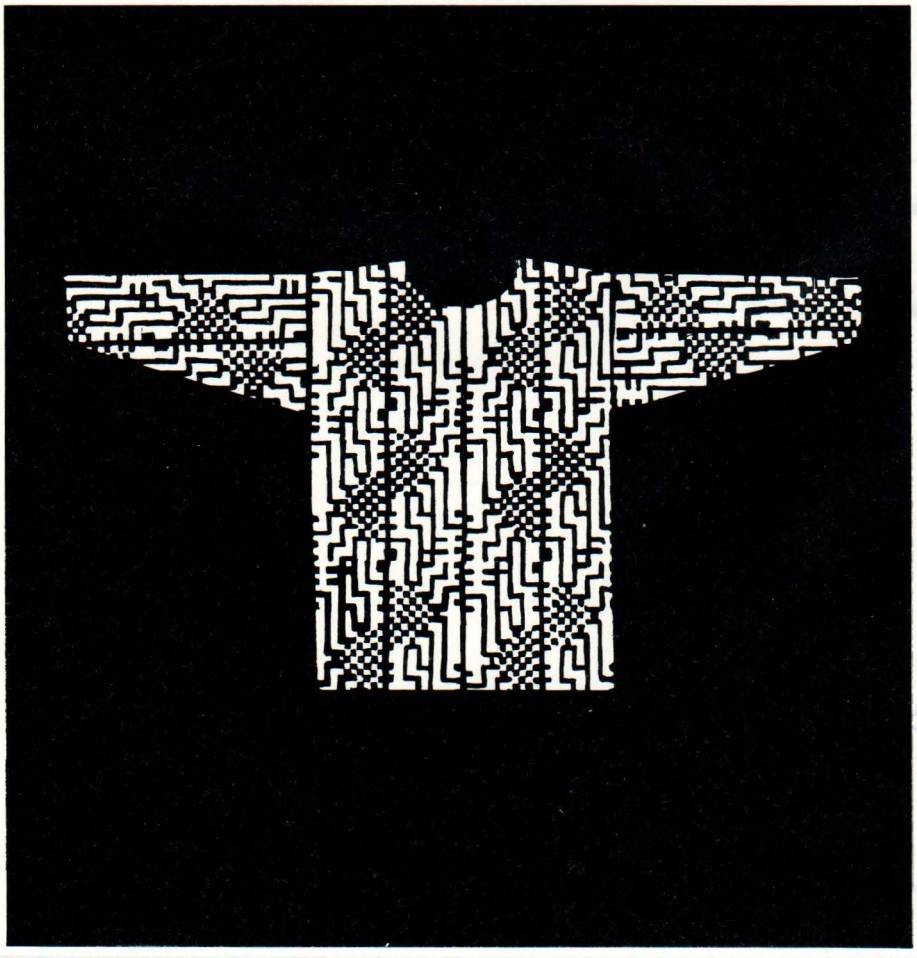


●=Thread beads on to cord on right side of fabric.

GEOMETRIC GALLERY

By Jane Huntingford

Jane's exclusive collection of fabric designs continues this month with more creative ideas for short float Fair Isle patterns and borders using geometric inspiration.



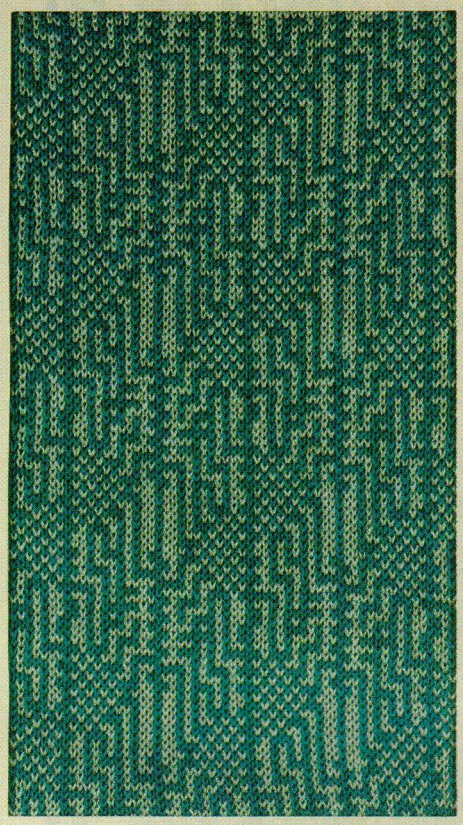
'LABYRINTH'

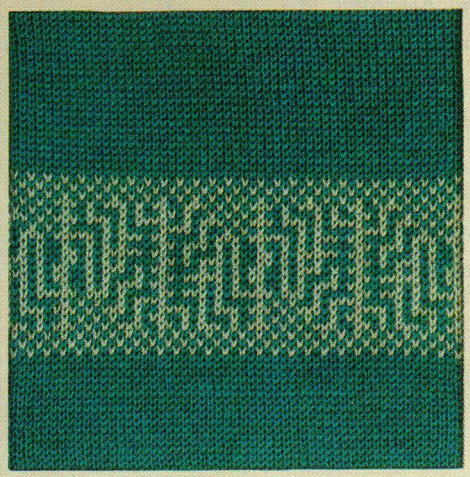
Inspiration for this month's design came whilst browsing through an architectural magazine. My interest in architecture together with architectural drawing plans, has given me a lot of ideas for many of the designs I create. My inspiration for 'Labyrinth' came from a drawing plan of a spiral staircase. I can imagine you are now rather puzzled and looking at the design every whichway in order to spot the staircase! Well, it may not be obvious, but the design really is based upon the structure of a spiral staircase. As usual, my enthusiasm got the better of me as I kept adding vertical and horizontal lines in order to keep the floats short. Having then taken on a new dimension with the resemblance of a maze, I decided to call the design 'Labyrinth'.

DESIGN IDEAS

'Labyrinth' is an all-over geometric pattern suitable for 24 stitch punchcard and electronic machines which has a very sophisticated quality and is very versatile for menswear as well as for women. The design lends itself equally well to a stunning look in two bold, contrasting colours or a more subdued effect in soft tone combinations. I have also included a complementary border design.

28▶





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Sample 1
(Punchcard and Electronic Machines)

'Labyrinth' design used as an all-over pattern.
Mercerised Cotton 4 ply (grey background/jade contrast).

Sample 2
(Punchcard and Electronic Machines)

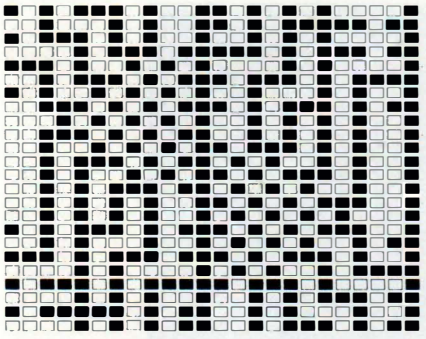
'Labyrinth' border design repeated once.
Mercerised Cotton 4 ply (jade background/grey contrast).

Sample 3
(Electronic Machines)

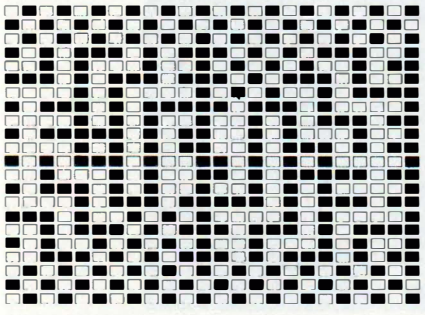
'Labyrinth' border design used as an all-over pattern using the REFLECTION pattern variation facility.
Mercerised Cotton 4 ply (grey background/blue contrast).

Sample 4
(Electronic Machines)

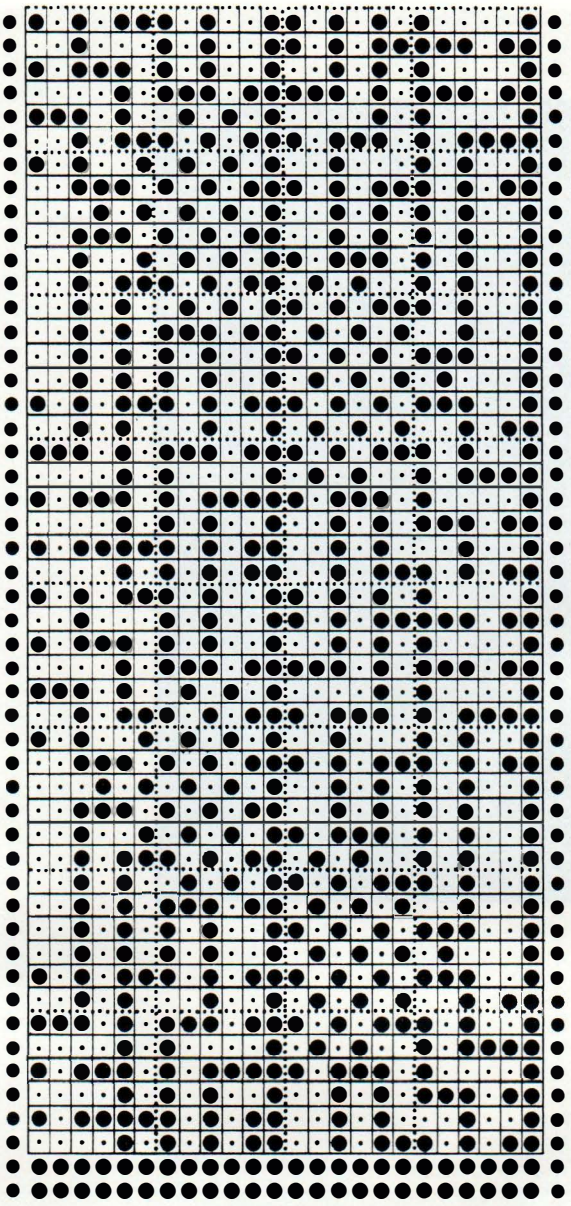
'Labyrinth' border design repeated twice using the REFLECTION pattern variation facility.
Yarn as above (blue background/grey contrast).



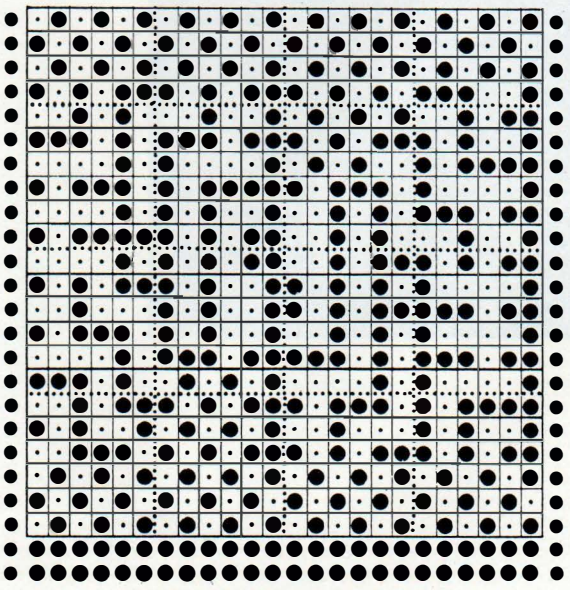
Electronic All-over Pattern



Electronic Border Pattern

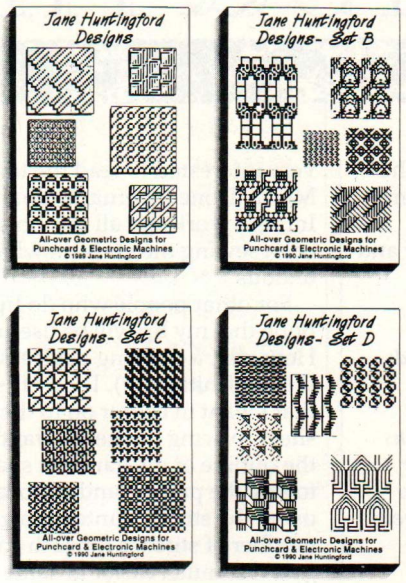


Punchcard All-over Pattern



Punchcard Border Pattern

Geometric designs for 24 stitch punchcard and electronic machines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LETTERS, HINTS & TIPS

Dear Sue,

I am writing in the hope that others will take notice of it. Some weeks ago the carriage on my Jones 830 went wrong and I sent it off to be repaired. I had taken care to pack it well but when it was later returned to me, although the packing looked unbroken, the carriage was severely damaged.

The tripper for the row counter was bent so far forward that it had split the carriage casing and made two deep grooves in it. I straightened this out and attempted to use the carriage on the machine. However, I discovered that it would not pass across the needle bed without grating on the sinker plate assembly, and no amount of adjustment seemed to make it any better.

I contacted my local Consumer Care group and, to give them credit, they were very helpful and got my complaint into the system the same day. Some three weeks later, the amount of compensation received under the guise of a goodwill payment is just £20, also with the inference that either I or the mechanic did the damage and that I am trying to get Parcel Force to pay for the damage.

Although I am hoping to get more compensation from these people, the Post Office Users Council tell me that it will be very hard for me to do so. The upsetting thing is that I was due to start on the local Enterprise Scheme and I had been trying to build up a collection of sample stock together. As it is at present, I have no carriage and therefore a machine I cannot use. The cost of the new repair is in the region of £68 plus labour – a price which is out of the question in my present situation on the dole.

So, when you send any part of your machine for repair by post, please insure the parcel, as you could find yourself in a worse situation than I am.

Yours sincerely,

Mrs. J. Smethurst, Margate, Kent

Dear Sue,

I finally found the jumper pattern I had been searching for – the 'Folklore Sweater' in your February issue (Pattern No 5). Unfortunately, I was unable to get the Guernsey 5 ply locally and I needed my jumper by the end of the week, so I decided to do some experimenting!

I found that if I used a 4 ply wool together with an end of Bramwell Silky, this gave an excellent result and matched the tension perfectly. I also used a Fair Isle pattern round the bottom of the jumper as well as on the cuffs and neck as I hadn't enough time to do all the embroidery.

The finished result is really lovely and I have had many compliments!

Yours sincerely,

Dawn Roberts, Walsall, West Midlands

● *That's what we call inspiration! We don't normally advise substituting yarns but in this instance we'll look the other way and just say how pleased we are to hear that your sweater turned out so well!*

Dear Sue,

I look forward to my copy of *Modern Machine Knitting* each month and was very interested to read the tip given by Mrs C. Done (February '92). I do a lot of Intarsia work and all this time, I have been sewing the ends in, which is very tedious.

For other people who do Intarsia, I hope that my tip will be useful. However, a charting device is essential (I use a Knitleader). I copy the picture that I want in colour on to the charting sheet, placing it where I want it within the outline of my garment shape. I follow the pattern and picture as I knit, using the stitch counter as a guide to the number of stitches for each colour. I find this much easier in some instances than following a separate chart.

Yours sincerely,

Anne Slater, Bishops Stortford, Herts

★ LETTER OF THE MONTH ★

Dear Sue,

I wonder how many people, on their first attempts at machine knitting, are sometimes put off by the fact that each garment has to have a 'tension swatch' – often more than one – to judge which tension setting is most suited to the yarn, or to find a suitable setting to match up with the pattern instructions? We are often tempted to skip this important knitting step, thinking that one 4 ply yarn is the same as any other. But I, for one, found out that this is a mistake and, like most knitters, have tried to find a way to cut down on the time it takes to make the necessary swatches!

I tend to save all kinds of things, one being pieces of thin cardboard from food packets. I cut these into two inch squares then punch a hole in one corner – each one makes an ideal label to attach to my swatches for details of tension used, number of stitches and rows, and so on, including the yarn brand. I keep a supply of these labels in a plastic box on my machine table where they are always ready to use.

I knit my swatches in the original way, making an open edge cast on over 60 or 70 stitches (according to machine in use) using waste yarn and then, after knitting several rows, I begin work on the swatch itself. I knit 30 rows, place contrast markers on the 21st needles from the centre (I use up various coloured oddments which have been left over from other garments and keep a supply of ready cut four inch lengths by the machine) and knit a further 30 rows to complete the swatch.

This is the point where my time saving idea is put into action. Instead of removing the yarn from the feeder to knit the contrast rows, I use the four inch marker yarns instead – placing one at each end and on every third needle across the row. I use a different colour to the one used for marking the 21st stitches and always make sure the ends hang down nice and flat (the four inch length allows for this). At the end of the row I fasten one of my labels, complete with relevant yarn type and tension details, then I change tension and carry on knitting for another 30 rows, mark the 21st stitches and so on. This method saves me a lot of time as I do not have to thread up the feeder with main and contrast yarns every few rows, and I find that several swatches can be knitted quite quickly. The details are all recorded neatly and the swatches can be stored away for future reference!

I do hope other readers will find this useful – many of their suggestions have helped me in the past!

Yours sincerely,

Mrs N. Keeley, Sheffield

● *Mrs Keeley's time saving tip wins her our congratulations plus a FREE SUBSCRIPTION to Modern Machine Knitting! We should emphasise to new knitters that this idea is really only suitable for achieving the appropriate results via minor ADJUSTMENTS to the tension setting (i.e. where only gradual tension changes are worked between each different section of the swatch). If the change of setting is larger than one whole number at a time, the fabric would distort at the line of change, making it difficult to measure accurately. Small adjustments, however, should not affect this too much and the idea is a good one!*

LETTERS, HINTS & TIPS

Dear Sue,

I have been a devoted hand knitter for several years and had always scoffed at the idea of using a knitting machine. Last year my first daughter, Danielle, was born. I hadn't realised how demanding a small baby could be and subsequently my knitting fell by the wayside. Sinful thoughts of buying a machine kept entering my head but nothing came of it until Barbara, a friend of mine, invited me for a demo in her home. Needless to say, I was amazed, but a bit in awe of all the buttons and dials.

It was then that I was introduced to your wonderful magazine – I left Barbara's house absolutely 'hooked' and determined to invest in a machine. As it turned out, my mum had an old Singer KE-2400 tucked away in her attic (only used once since new!). I dug it out and got cracking.

Impatient as I am, I soon got fed up with knitting test pieces and embarked upon my first jumper (Pattern 1, issue August '91). Within a week I had a completed jumper – with no real effort at all! I have knitted several garments since, averaging one a week. Thank you so much Barbara and *MMK* for inspiring me!

Whilst writing, I would like to ask if any other reader knows of any attachments (ribber, etc) which might be available for my machine. I think it may now be obsolete as I scour your advertisements each month but never see anything available.

I really would be most grateful for any help.

Yours sincerely,

Sue Dekker, Heworth, York

● *Thank you for your letter Sue and congratulations on joining the 'machine knitting club'. I expect your little girl has grown a lot so the Baby Collection featured in our April issue won't be a lot of use until next time!*

If anyone can help with information on Sue's machine accessories, please contact Sue direct by writing to her at 21 Hawthorn Street, Heworth, York YO3 0XP.

WANTED

Are you a Silver Reed owner? Do you have a query or problem relating to your machine? If so, we'd like to hear from you! Whether it's a question you'd like to ask about a specific knitting technique, or a problem you're having with a certain stitch pattern, yarn or accessory, just write it down and send it in to us. We're looking forward to welcoming Kamalini Trentham to our special Silver Reed 'advice spot' – she will be using her machine knitting expertise to help you with your queries. If the response is good, we are planning to publish your letters together with Kamalini's advice as a new and regular feature in *Modern Machine Knitting*.

Please address your letters to Silver Reed Queries, 3 Bridge Avenue, Maidenhead, Berks SL6 1RR. Include the gauge and model number of your machine (punchcard or electronic); and if you require immediate help, don't forget to enclose a SAE for the reply!

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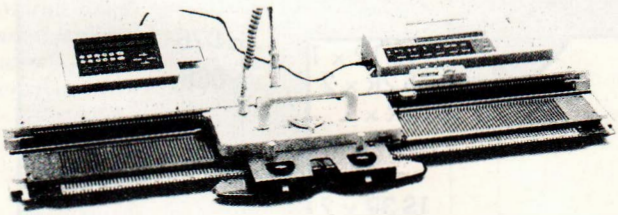

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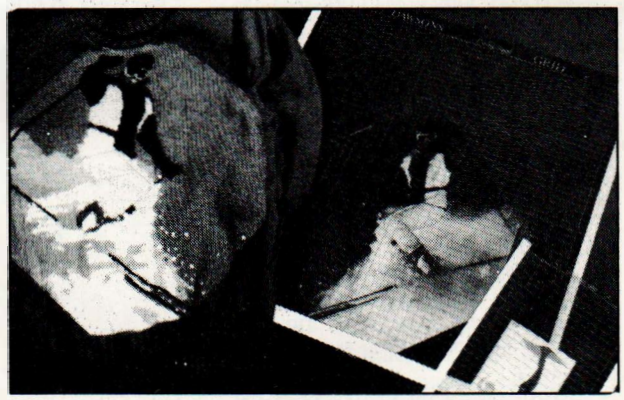

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HOW TO WORK FROM A DIAGRAM PATTERN

The pattern instructions in Modern Knitting are in the form of a diagram pattern, which is by far the easiest form of knitting pattern to use. However, if you are not familiar with diagram patterns, Here's a step by step guide which will teach you to use this easy-to-follow pattern system. Study the symbols on next page carefully then work through the diagram following the written explanation alongside. You'll find it quite straightforward and, once you have knitted your first couple of patterns using this system, you'll wonder how you ever coped with those long winded written patterns.

First of all, take a look at the diagram itself. The diagram is divided into two halves. On the right side you'll find all the stitch and row references while on the left side you can see we've given all the measurements which will help you when pinning your knitted pieces out to size. In addition, you'll find certain items of information on the diagram such as the needle arrangement for the rib, the type of cast on you should do and any other relevant information you might need. As you can imagine, once you are familiar with this type of pattern, you'll be able to see at a glance just what's involved in the knitting of each design without having to read the whole pattern.

Starting at the lower edge, your first instruction is ∧∧∧∧ 60S. This tells you to cast on 60 stitches using the ribber.

⁞¡⁞¡⁞¡⁞ tells you to arrange the needles for a 1 × 1 rib.

000 at the bottom right hand corner tells you to set your Row Counter to 000.

MT-3 tells you to set your Tension Dial to 3 numbers lower than the Main Tension.

The first row number given is 006, so knit to row 6.

The line across the diagram at row 6 tells you that you have finished knitting the rib, so transfer the stitches from the ribber to the main machine.

000 at the right hand edge tells you to turn your Row Counter back to 000.

MT tells you to set your Tension Dial to the Main Tension. Continue knitting until your next instruction which is on row 40.

The diagram pattern shows you that you are now at the stage for shaping the armholes. **Although the shaping instructions are shown on one side of the diagram only, they should be worked on both sides, since the diagram shows there is the same armhole shape on the left side.** If you find it easier to begin with, pencil in the same instructions on the left side to remind you that you have only been given the instructions for one armhole.

1S.1R×2 is the instruction.

1S tells you how many stitches to decrease.

1R tells you how many rows after each decrease.

×2 tells you how many times to decrease.

Therefore, 1S.1R×2 means:-

Decrease 1 stitch on both sides (you are repeating the shaping instructions for the left armhole). Knit one row.

Decrease 1 stitch on both sides, knit 1 row.

The next instruction is 1S.2R×1. Therefore, decrease 1 stitch on both sides (you are repeating the shaping instructions for the left armhole). Knit 2 rows.

The next instruction is 1S.3R×2.

Therefore, decrease 1 stitch on both sides (you are repeating the shaping instructions for the left armhole). Knit 3 rows.

Decrease 1 stitch on both sides. Knit 3 rows.

Your next instruction is not until Row 68 therefore knit to row 68 without shaping.

The diagram pattern shows you that you are now at the stage for shaping the neck.

The symbol **V** tells you to divide the work in half and knit each side separately.

Therefore, either push the needles at left into holding position, or knit them onto waste yarn and remove from the machine. Now knit the right side as follows: —

5 S tells you that 5 stitches form the base of the neckedge.

Therefore, using a length of main yarn, cast off 5 stitches.

Your next instructions are for the neck shaping

2S.2R × 1
1S.2R × 2
1S.1R × 1

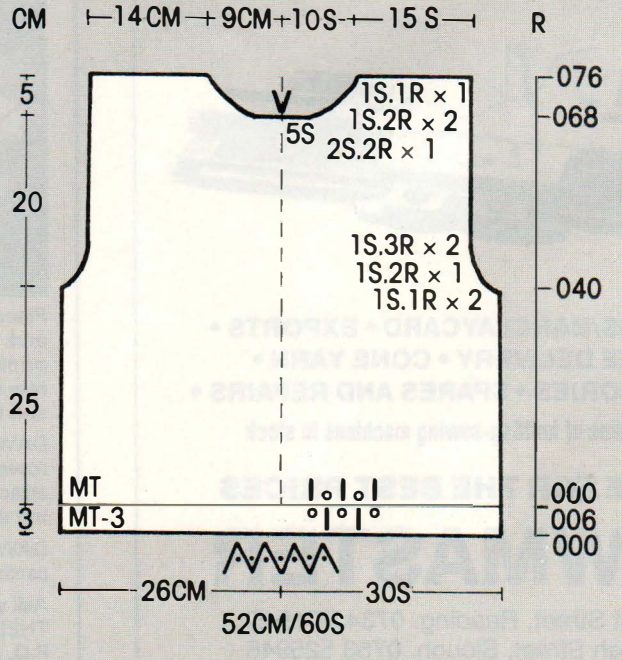
and should be carried out in the same way as before.

The last instruction is on row 76 where the straight line shows you should cast off the remaining 15 stitches.

Then, of course, you must turn the Row Counter back to 68 and knit the left half of the neck in the same way.

For those of you who are new to diagram patterns, the important points to remember are: —

1. The stitch, row and shaping references are on the right half of the diagram.
2. Shaping instructions are given for the right side of the diagram only. They should be repeated on the left if the diagram shows there is the same shape on the left.
3. A shaping instruction such as 2S.1R × 3 means decrease 2 stitches, knit 1 row, 3 times in all.
4. Don't worry too much if you find you're the odd row or stitch out on your first couple of attempts. Nobody will notice and you'll soon get the hang of using diagram patterns and wonder how you ever managed without them.



SYMBOLS FOR THE DIAGRAMS

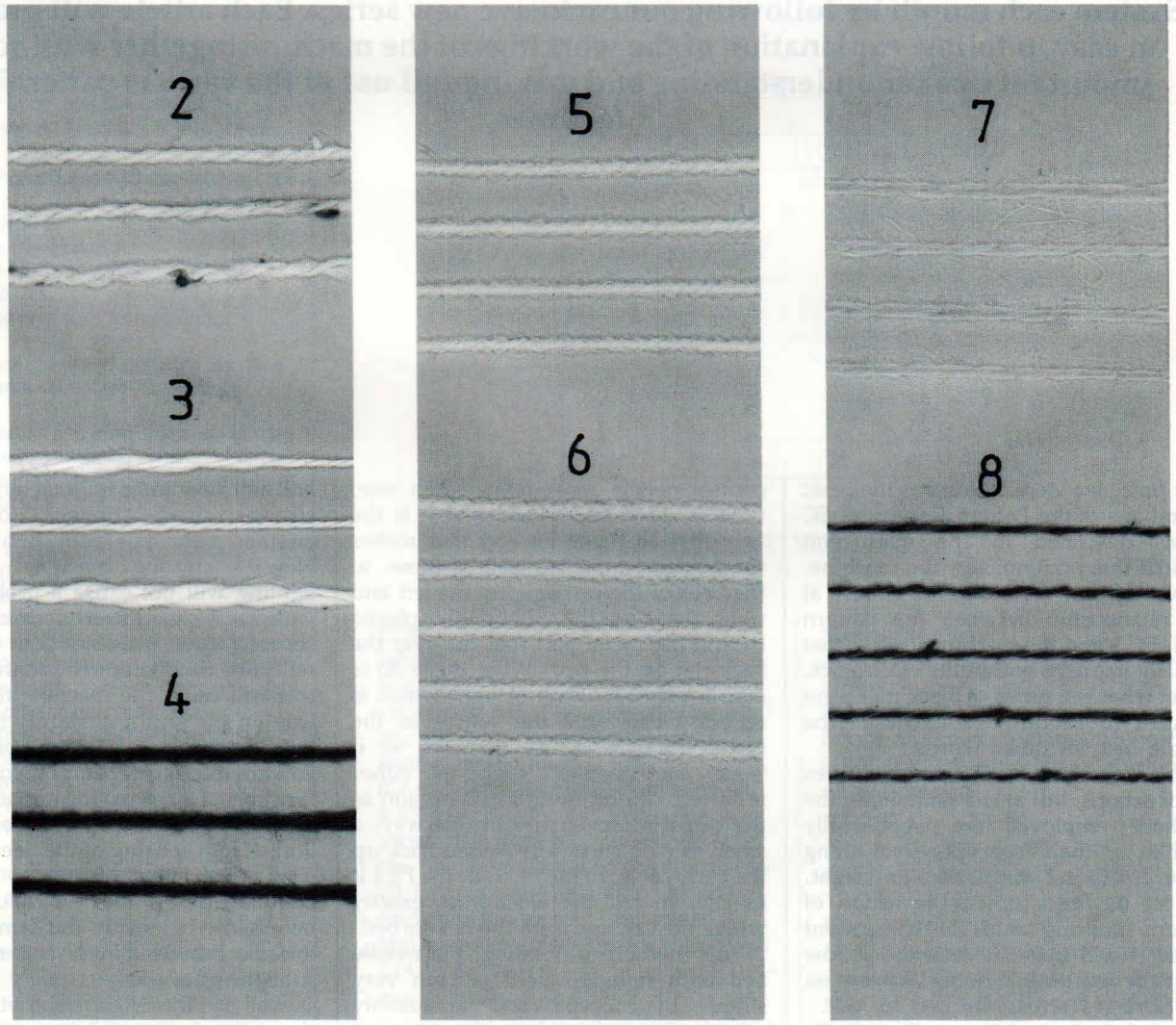
Closed edge cast-on	Turn up a hem
Cast-on using waste yarn	Pattern stitch
Closed edge cast-on with ribber	R — Row
Loose row	MT — Main Tension
Needle arrangement 1 = needle in work position 0 = needle in non-work position	V — Divide work in half and knit each side separately
S = Stitches	Repeat
( ) Larger sizes	**2S.2R x 3** is an example of shaping instructions shown on the diagram. The shape of the diagram will indicate whether you are required to increase or decrease. 2S.2R x 3 would mean decrease (or increase) 2 stitches, knit 2 rows, 3 times in all.
① Colour	

Abbreviations

Alt	— Alternate
Approx	— Approximately
Beg	— Beginning
Carr	— Carriage
Cm(s)	— Centimetre(s)
Col	— Colour
Dec	— Decrease
Ev	— Every
Foll	— Following
HP	— Holding Position
Inc	— Increase
MT	— Main Tension
N	— Needle
Ns	— Needles
NWP	— Non Working Position
Patt	— Pattern
Pos	— Position
Rept	— Repeat
Rem	— Remaining
RC	— Row Counter
St	— Stitch
Sts	— Stitches
TD	— Tension Dial
Tog	— Together
UWP	— Upper Working Position
WP	— Working Position

YARNS USED IN THE PATTERNS

For your reference we have included an actual size representation of the yarns we have used in the patterns this month. You may find it useful to see how each particular yarn looks before it has been knitted into a garment and it will be particularly useful when we haven't quoted a brand of yarn, simply a type of yarn.
Our overseas readers will also find it helpful since not all the yarns will be available in all countries. However, having said that, it will certainly be worthwhile writing to the spinners listed in our Stockist Information to see if there is an overseas mail order service available.



KNOW YOUR SILVER ELECTRONIC — Part 2

By Erik Weitz

Build up your confidence and knowledge of the Silver Reed Electronic Knitting System each month by following our exclusive new series. Each article will provide an easy to follow explanation of the workings of the machine together with some important tips for understanding and making full use of the various patterning facilities.

Last time, we were looking at the basic operations of the Pattern Controller EC 1, as described in the instruction manual that accompanies the machine. Now it is time to look more closely at the relationship between the pattern card, EC 1 and the machine itself. What actually happens within the electronics, to get what is a series of black marks on the card, to knit different stitches on the needle bed, in other words.

This is in some ways a very complex set of actions, but at the same time, the methods employed are wonderfully simple in their concept. Everything revolves around magnetism and light. But let us break down the action of pattern knitting into its component parts. It will make it easier to follow what the machine is doing as we pass the carriages across the bed to knit.

First, let's look at the carriage itself.

As we all know, underneath the carriage, there are a mass of metal parts of various shapes called 'cams'. These control needle movement, stitch size, type of stitch and so on, and it is the way that all these interact that makes the machine knit. As well as these, at the back of the carriage, on the left and right, there are the 'SENSORS', placed behind the metal part that fits over the back rail on the bed. What these do is emit a very low level of light which is reflected back into the sensor as the carriage moves across the bed, so it 'sees' the needles. Light is either reflected, or not, in rapid succession as the carriage moves and in this way, a small electric current is passed back up the curly cable, to the EC 1, or the PE 1 if in use, to tell the electronics exactly where the carriage is on the needle bed.

This method of 'reading' the needle bed with reflected light is both very simple in concept, and remarkably reliable. But it does depend on you, as the operator, both keeping the sensors clean at all times, as recommended in the maintenance section of the manual, and not operating the machine in very strong, direct sunlight, or under another very powerful light source. Normal knitting machine or room lighting will not cause a problem, but with a very powerful, direct light source, it is possible that the light reflection function can be confused, and this will cause the machine to 'lose its way' in the knitting. Hardly fair to the machine to expect it to work properly, if you are interfering with one of its basic functions, by not paying attention to the manufacturer's operating recommendations. Light sensing of the needle bed is used by other knitting machine manufacturers too, although not necessarily in exactly the same way as this. So the cleanliness and no strong sunlight rules apply to many machines as well as Silver Reed. The other point about this is that if it is used by more than one type of machine, then it must be considered to be a very reliable method by manufacturers.

Now we know how the machine knows where the carriage is on the needle bed. But how does it tell when we change the direction of pushing the carriage? In the white plastic slide rail at the front of the carriage, there are two small magnets that are connected by a tiny bar. As you change the direction of the carriage, these move and operate a tiny micro-switch circuit, that in turn alerts the card reader, or design controller as to what is happening, causing the pattern to move on and so on. Once again, this must be kept very clean to ensure that these two magnets may move freely – if they become stuck, the pattern goes awry because the machine does not know that you have changed carriage direction. With normal care and regular cleaning this should never happen, but it is worth paying a little extra attention to this area when you are cleaning the machine.

We have yet more magnetic trips to look at before we leave the carriage and needle bed. The Point cams and the Needle 1 cam. These are all magnets that operate micro-circuits to do something. Say we are passing the carriage from left to right. As the carriage passes the left Point cam, the magnet operates the switch to tell the machine that patterning should start here. As we continue across the bed and pass the right Point cam, the magnet operates the switch to tell the machine that patterning stops at this point. The Point cams themselves do not actually touch anything to mechanically operate the switch, but their small magnetic field operates the switch. Being a non-mechanical operation makes the system very reliable, and of course causes no wear on the parts.

The Needle 1 cam operates in much the same way, telling the carriage needle selection cams where the pattern repeat is to start and end by magnetically operating a micro-switch to send the information back to the reader, or design controller. This is why the Needle 1 cam should not be moved when knitting, except as outlined in the instruction manual, as it causes the machine to become confused as to pattern positioning. (There are other exceptions to this rule, but we will not be dealing with them in this article).

As we have seen the Point cams and the Needle 1 cam operate with very small magnets, and for this reason must also be kept scrupulously clean so that they can operate correctly. Always make sure that they are free of fluff, grease, or oil before starting any new project and you will have no problems with them.

Now we have seen how the carriage knows where it is on the needle bed, how the Point cams tell the carriage where to pattern and what the Needle 1 cam does, but how does the machine actually make the needles knit a pattern?

Once again, magnetism. Or to be more precise, electromagnetism.

When needles are brought foward into position B, they enter the carriage in such a way that the selection cams can operate upon the needle butts, causing the needles to be moved up or down the bed to create stitch formations such as Fair Isle, tuck, slip, and so on by the use of specific cams for these stitches. The clever part is the way the pattern information is fed to this area. As the card is read, or the pattern sent from the Design Controller, as small electrical impulses, this switches small electromagnets on and off in quick succession. Take a Fair Isle pattern as an example. As the needle butts pass under the carriage at position B, the pattern is fed as a series of impulses to the electromagnets. When the magnet is off, the needle butt passes on to the cam that will make the needle knit the yarn in feeder 1. When the magnet is on, the needle butt is moved so that it can be operated on by the cams that move it further up the bed to knit the yarn in feeder 2. The on/off impulses are sent at the correct speed to the carriage to match your knitting speed, and to operate on one needle at a time. So every needle on the bed in B position is operated upon by its own impulse, or lack of impulse to create the pattern. The pattern impulses are on or off, or yes or no, to move the needles into the correct position for patterning. All the stitch patterns are created in a similar way, but the carriage settings bring differing cams into work for the stitch type selected. The on/off impulses for each needle remain the same, the patterning cams do the work of moving the needles. Thinking about the method of this operation should also make us see why trying to knit at a thousand miles an hour is not fair to the machine. It has to have time to operate the electromagnets, move the needle butt and knit. All normal knitting speeds are fine, but if you try to knit very rapidly, you will lose the pattern continuity at best, or cause a messy jam at worst. Knitting is a pleasure, so why try to knit faster than is normal? It only means the pleasure is over more quickly, and you could end up with a mess to sort out. The description above is of course very simplified, but is an illustration of how the machine operates. It is of course performing many other operations at the same time, and often in very complex combinations. But hopefully this will help you understand what is going on underneath the carriage. Not only because it is perhaps interesting, but also, it can often help sort out a problem, by knowing where to look for the cause before announcing to the world that the machine is not working correctly. If there is mispatterning, are you knitting too fast, are the Point cams clean, the needle bed clean so that the carriage can read it, is Needle 1 cam clean and positioned correctly, have you brushed out the fluff and oiled the carriage to allow the cams to work properly, are the magnets in the front rail moving easily, or clogged with dirt? Often, when a problem occurs, the answer will be found here, or with the knitter. It is an unfortunate fact of life that about ninety-nine per cent of knitting problems are caused by what is politely known as 'operator error'. Meaning that the knitters are not thinking about what they are doing. We do it all of the time, often because we are so keen to get on to knit a new pattern or design, that we forget to check that everything is set correctly to knit the way required and that everything is cleaned and oiled before starting. It is a human failing, but one that the machine cannot cope with. It is a miracle of modern technology, but unfortunately can only do what you tell it. So if we set the machine incorrectly in the first place in our haste to see our latest beautiful design come off the machine, it will not knit as we would wish. I now make myself use my 'Idiot Check List' before knitting anything, as I have made so many stupid mistakes in the past.

1 Have you cleaned and lubricated ALL parts of the machine?

2 NO CHEATING. Check again, I said ALL parts!

3 Threaded the yarn correctly?

4 Is it the correct yarn for the job?

5 Check the carriage settings. Are they set for the stitch type you want?

6 Have you switched on the machine?

7 All necessary accessories to hand? e.g. transfer tool, etc.

8 Pattern card inserted properly?

9 Correct selection of lights and buttons on EC 1?

10 Inspection switch off?

11 Go back to 1, and check through again a second time.

12 Start knitting, remembering that this is not a race. Take your time.

It may look silly, but it works, and my knitting is almost always trouble free. If I do come across a problem, it is rarely the machine at fault, usually me doing something wrong, or having forgotten an important part of the operations necessary for what I am doing. (Like forgetting to hang the weights evenly when using the ribber bed).

We have seen this time what the carriage does in knitting, and next time, we will be taking a closer look at the card, how it is read, and what happens with the EC 1 and PE 1, as well as a few interesting short cuts to patterning.

COMPETITION

WIN A SILVER SK89(

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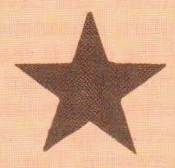
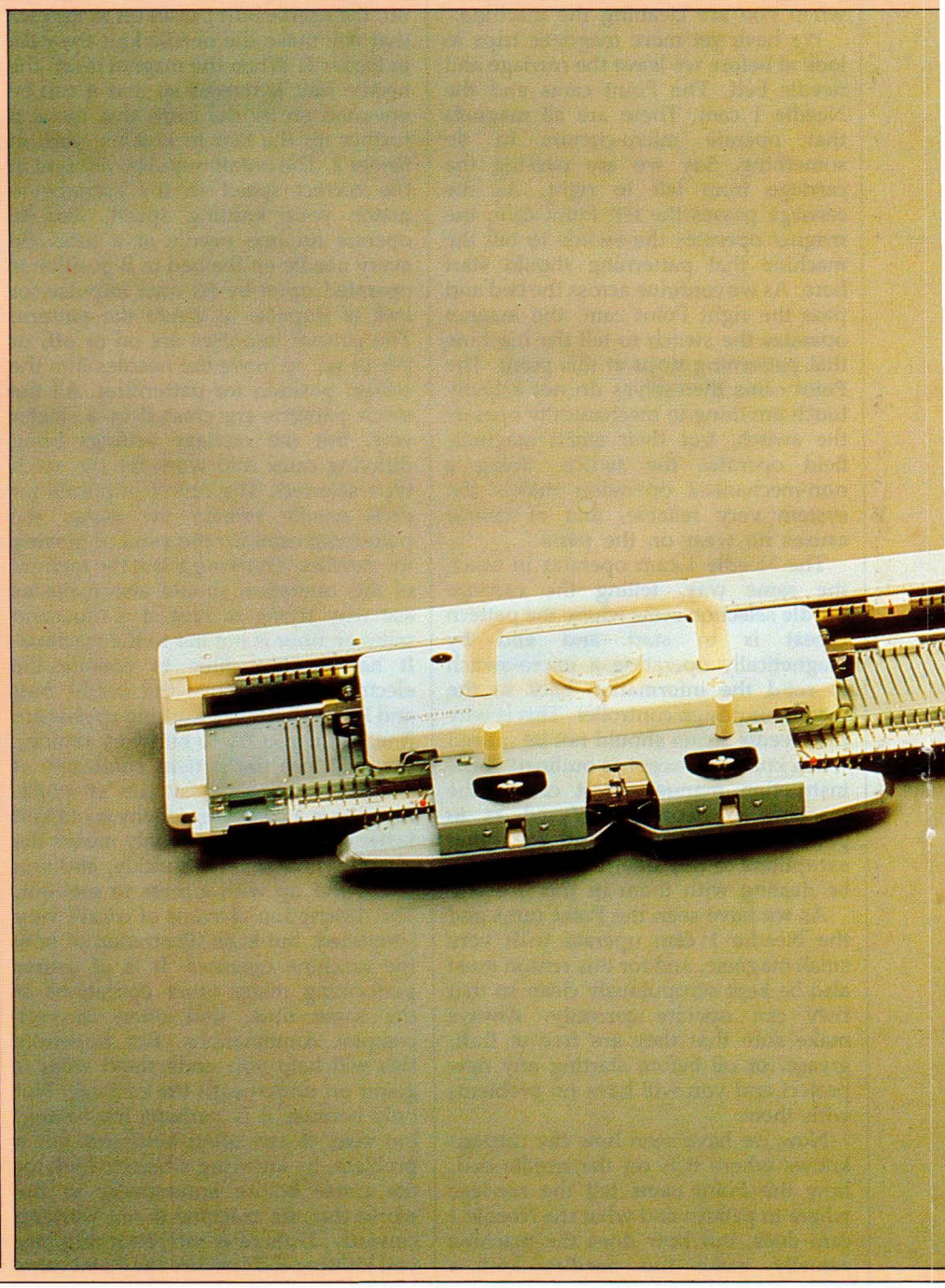


SILVER

Modern Machine Knitting is justifiably proud of its knowledgeable readership. Nowhere is that depth of knowledge more ably demonstrated than in the appreciation of our selection of superb patterns which grace these pages each month.

Well, after the commercial, it's about time your Wordgame compiler reverted to normal transmission to explain how the following, less than superb, pattern may help you to be picked as the winner of this month's, more than superb, prize. Once again, Silver Knitting Machines Ltd will be offering one of their top of the range electronic knitting machines to the lucky winner. This time, it's the **SK890 with Pattern Controller EC1** – a chunky 9.0mm gauge machine with 110 needles and the facilities to knit all your favourite designs up to 60 stitches wide by 150 rows long. Choose from Stockinet, Fair Isle, Tuck, Slip, Punch Lace and Weaving to create a wide variety of exciting garments in your own selection of chunky and fancy textured fashion yarns. The machine features friction free carriage rollers for ease of use and don't forget that this electronic model is part of the versatile new 'Modular System' – you can add the Design Controller PE1 to extend your patterning options even further!



RULES

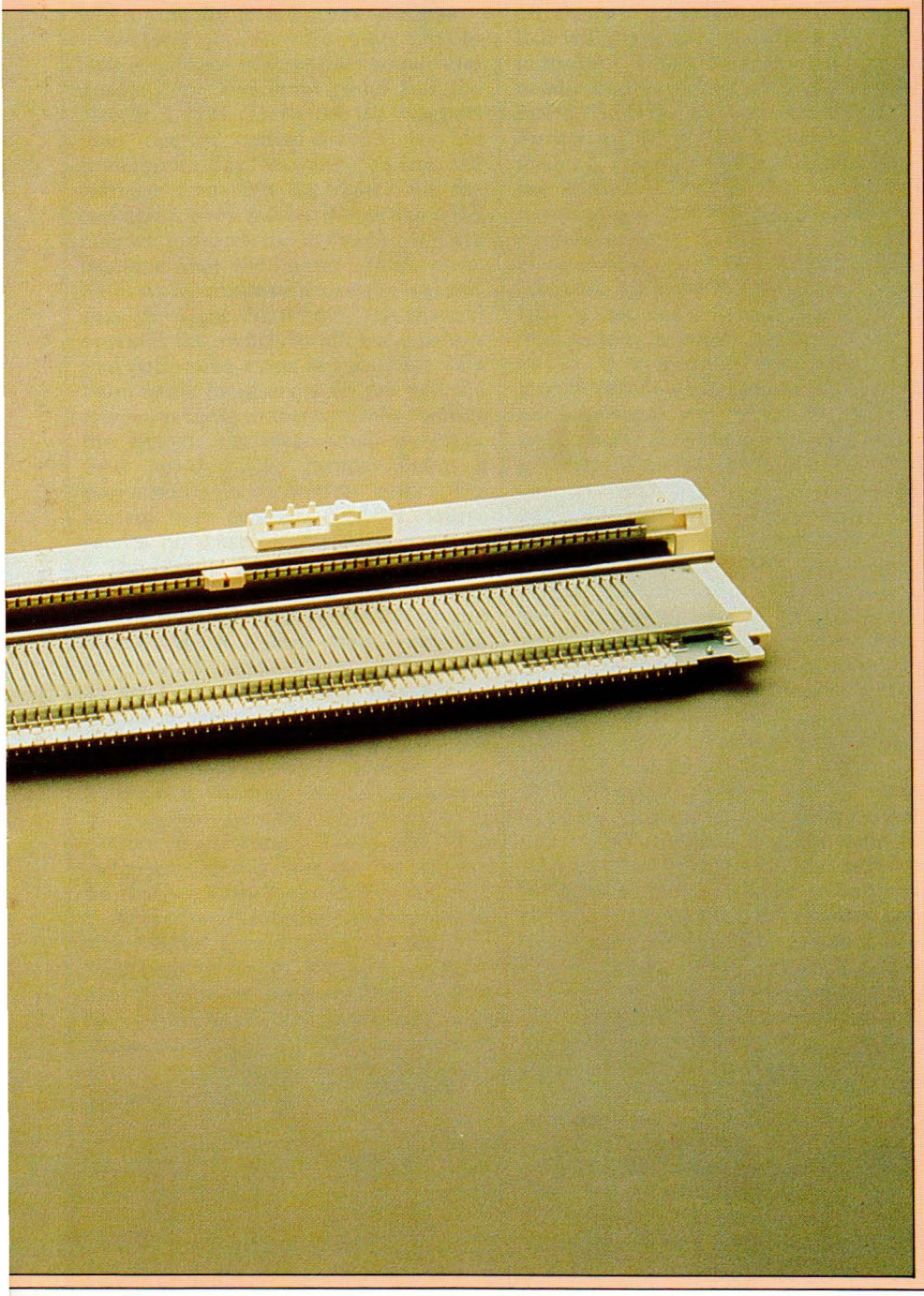
1. Only entries on forms cut from the magazine will be accepted. You should print your answers clearly in the grid provided and send your entry form to May Competition, Modern Machine Knitting, 3 Bridge Avenue, Maidenhead, Berkshire SL6 1RR.
2. This competition is open to residents in the UK only, except the employees of Modern Machine Knitting Ltd, the magazine's typsetters, printers, distributors, employees of this month's sponsor and their relatives.
3. Your entry must reach us by 31st May 1992 and we accept no responsibility for entries lost or delayed in the post.
4. No cash alternative will be offered.
5. The winner will be the first correct entry drawn from our postbag after the closing date.
6. The winner will be notified in writing and the result will be published in a future issue of *Modern Machine Knitting*.
7. The Editor's decision is final and no correspondence will be entered into regarding the competition.

0 CHUNKY MACHINE

OM

THE WONDERFUL WORLD OF SILVER REED

R REED



FIVE SQUARE

The Wordgame for this competition is aptly named. What you have to do is study the following statement carefully. You will find a number of words, each of five letters. Your task is to select which five of those five letter words fit into the grid in order that each of those words may be read both horizontally and vertically.

STATEMENT

All, with personal knowledge of the Silver Reed range of products, agree that for sheer value, Silver is top of the class.

If you need convincing, let Silver light up your day.

Put this claim to a stern test of your own and prepare to become a fan!

COMPETITION ENTRY FORM

MAY 1992 MMK

Name .....

Address .....

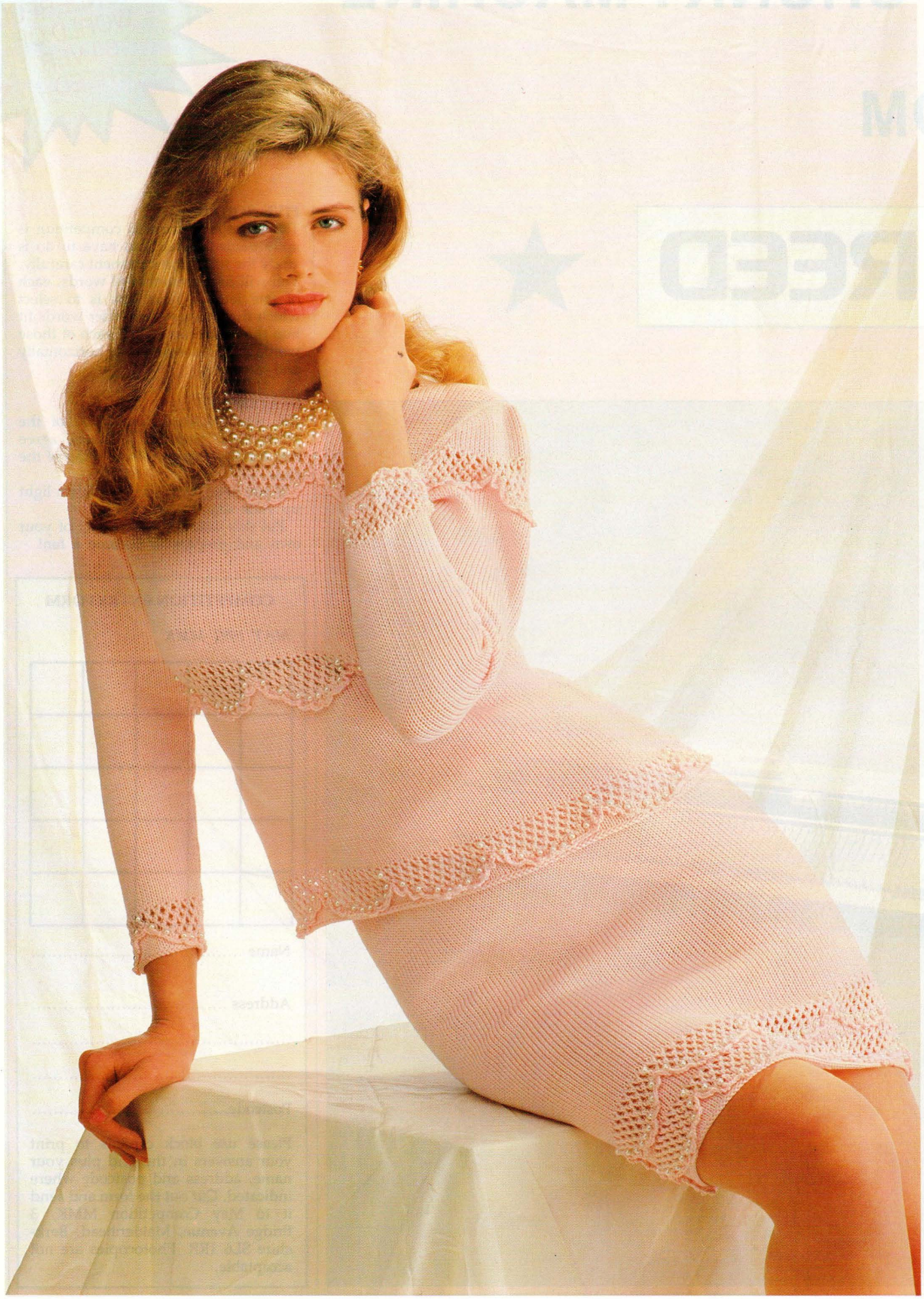
.....

.....

Postcode.....

Please use block capitals to print your answers in the grid plus your name, address and postcode where indicated. Cut out the form and send it to May Competition MMK, 3 Bridge Avenue, Maidenhead, Berkshire SL6 1RR. Photocopies are not acceptable.

Pattern 1



PUNCH LACE TOP AND SKIRT

This attractive two piece is an exclusive design from the 'Silver Reed International Collection'. The punch lace and delicate pearl trimmings add the finishing touches for that special occasion.

Having chosen a suitable yarn, either knit your own tension swatch and use your Knit Contour with the block measurements given or follow the written instructions by achieving the same stitch and row tensions.

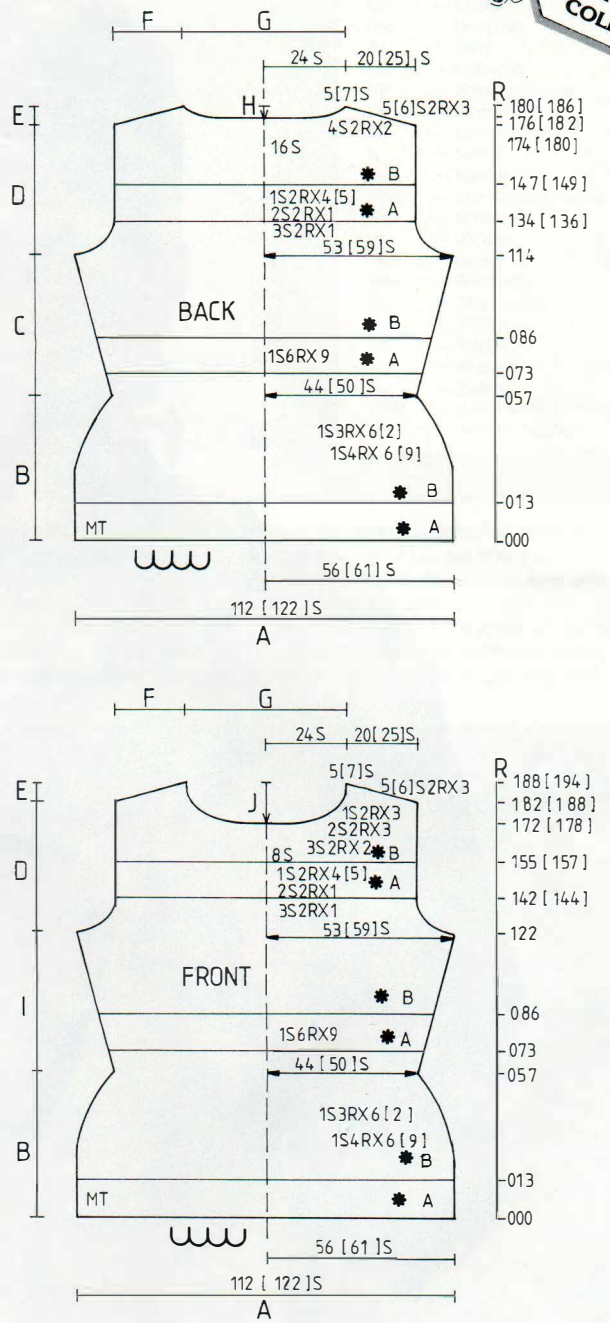
For SK860 electronic double knitting machines with EC1 and PE1 design controller.

SIZES:
To fit 86-91 (96-101) cms, 34-36 (38-40) inch bust/hip.

APPROXIMATE YARN TYPES AND AMOUNTS:
DK weight.
Col 1 (Pink) – 680 (780) grms.
Fine Lurex Yarn.
Col 2 (White) – 100 (120) grms.
Approx 518 (568) 6 mm beads.
Elastic to fit waist.

TENSIONS:
Pattern A (Punch Lace and Weaving) – 22 sts and 26 rows to 10 cms. TD at approx 4 (MT).
Pattern B (Punch Lace Without Pattern) – 22 sts and 32 rows to 10 cms. TD at approx MT.

PATTERN NOTE:
Punch Lace – see chart A.
Programme card into design controller.
12 rows × 20 sts.
Wind off 2 balls of col 1 for weaving.
Pattern A
1st size (back of top and skirt) and 2nd size (back and front skirt). Needle 1 cam at centre 0.
1st size (sleeves and front of top and skirt) and 2nd size (sleeves and back and front of top). Needle 1 cam between Ns 10 and 11 at right of centre 0.
Both sizes
Point cams at edge of knitting. Buttons 1 (left) and 2 (left). Take carriage across twice without knitting.
Inspection button on. * Set pattern A to row 1. Inspection button off. Col 1 in feeder 1, col 2 in feeder 2. Set carriage for punch lace. K 1 row. Place beads on sts as on chart 1. K 11 more rows, placing beads as on chart. Inspection button on. Set carriage for st st. Set Russel levers to II. Weaving knobs to ~. Push Ns marked 'X' on chart 1 to HP. Lay 2 ends of col 1 over Ns in HP. Col 1 and col 2 in feeder 1, K 1 row *. K 1 row st st. Rep from * to *.
Pattern B (no card necessary)
Press keys as follows:
© → READ → ② → F4 → ② → ⊜ →
Inspection button off → ⊜ (the display shows OK). KNIT → ⊜ → Inspection button on (the display shows nothing).
Col 1 in feeder 1, col 2 in feeder 2. Set carriage for punch lace. Leave inspection button on. Push the end N on carriage side to HP on every row.



TOP
BACK
Push 56 (61) Ns at left and right of centre 0 to WP. 112 (122) Ns. Using MT and WY, cast on and K a few rows ending with carriage at left. Using col 1, K 1 row. Set RC at 000. Cont in patt A, K 13 rows. Cont in patt B and shape as shown on diagram to row 57. 88 (100) sts. Shape as shown on diagram to row 73. Cont in patt A and shape as shown on diagram to row 86. Cont in patt B and shape as shown on diagram to row 114. 106 (118) sts.

Shape Armholes
Shape as shown on diagram to row 134 (136). 88 (98) sts. Cont in patt A, K to row 147 (149). Cont in patt B, K to row 174 (180).

Shape Shoulders
Shape as shown on diagram to row 176 (182).

Shape Back Neck
Shape as shown on diagram to row 180 (186). Cast off rem 5 (7) sts. K left part as for right part.

FRONT
K as for back to row 86. Cont in patt B and shape as shown on diagram to row 122. 106 (118) sts.

Shape Armholes
Shape as shown on diagram to row 142 (144). 88 (98) sts. Cont in patt A, K to row 155 (157). Cont in patt B, K to row 172 (178).

Shape Neck
Shape as shown on diagram to row 182 (188).

42►

Pattern 2

SCALLOP NECKED SWEATER

This classic sweater is enhanced by the colourful flecks in the yarn, with a matching bright green yarn oddment chosen to illuminate the attractive scalloped neckline. This edging is easy to do and utilises the holding facility on the machine.

For standard gauge machines with ribbing attachment.

SIZES:
To fit 86-91 (91-96, 96-101) cms, 34-36 (36-38, 38-40) inch bust.

APPROXIMATE YARN TYPES AND AMOUNTS:
Melandra Bobble (knits as 4 ply)
Col 1 (White) – 320 grms.
Col 2 (Green 4 ply) – A small amount.

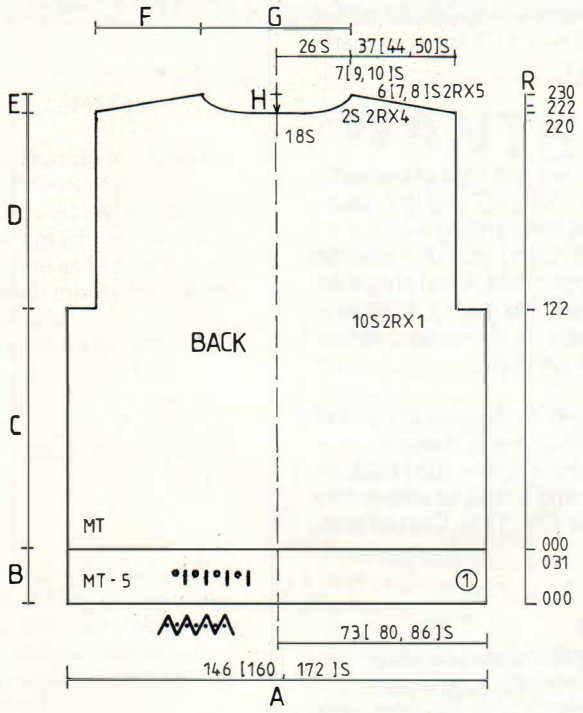
TENSION:
Stocking Stitch – 26 sts and 38 rows to 10 cms. TD at approx 9 (MT).

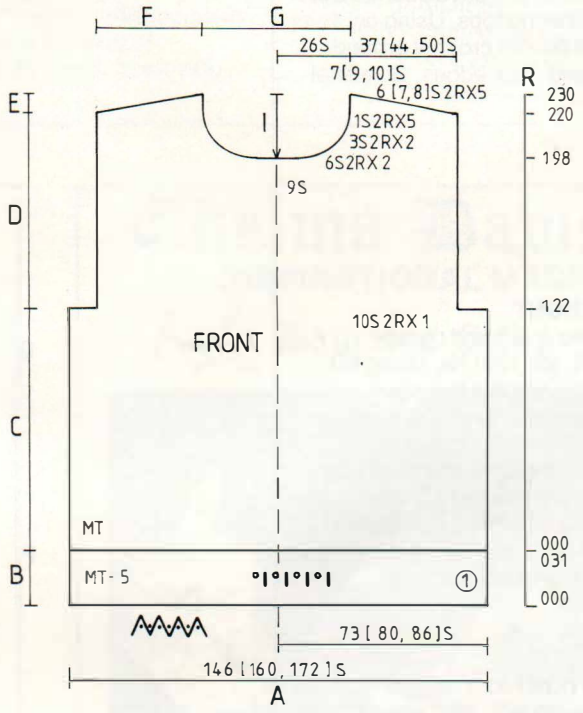
PATTERN NOTE:
Stocking Stitch.

If you have any problems locating Melandra Bobble 4 ply Acrylic, please write to the addresses below for local stockist and mail order information. Please quote this issue of *Modern Machine Knitting*.

Melandra Textiles
Clarence Mill
Stalybridge
Cheshire SK15 1QH

N. Roberts
36 Marple Road
Sunnyside Farm
Charlesworth
Near Hyde SK14 6DA





BACK
With ribber in position and carriage at left, set machine for 1×1 rib. Push 73 (80, 86) Ns at left and right of centre 0 to WP. 146 (160, 172) Ns. Push corresponding Ns on ribber to WP. Arrange Ns for 1×1 rib. Using col 1, cast on and K 3 circular rows. Carriage is at left. Set carriage for 1×1 rib knitting. Set RC at 000. Using MT–5, K 31 rows. Transfer sts to knitter. Set RC at 000. Using MT, K to row 122.

Shape Armholes
Shape as shown on diagram. 126 (140, 152) sts. K to row 220.

Shape Shoulders
Shape as shown on diagram to row 222.

Shape Back Neck
Shape as shown on diagram to row 230. Cast off rem 7 (9, 10) sts. K left part as for right part.

FRONT
K as for back to row 198.

Shape Neck
Shape as shown on diagram to row 220.

Shape Shoulder
Shape as shown on diagram to row 230. Cast off rem 7 (9, 11) sts. K left part as for right part.

43 ▶

A = 56 [61, 66] CM	J = 23.5 CM
B = 7 CM	K = 40 CM
C = 32 CM	L = 4 CM
D = 26 CM	M = 52 CM
E = 2.5 CM	N = 51.5 CM
F = 14 [16.5, 19] CM	O = 3.5 CM
G = 20 CM	
H = 2 CM	
I = 8.5 CM	

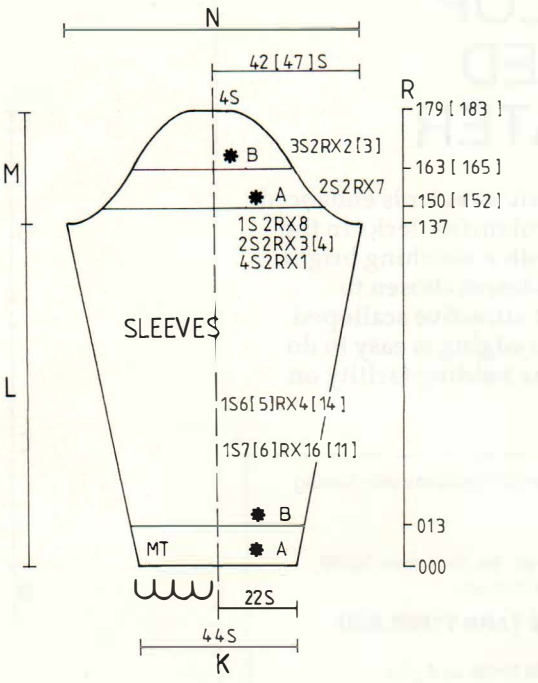
◀39

Shape Shoulder
Shape as shown on diagram to row 188 (194). Cast off rem 5 (7) sts. K left part as for right part.

SLEEVES
Push 22 Ns at left and right of centre 0 to WP. 44 Ns. Using MT and WY, cast on and K a few rows ending with carriage at left. Using col 1, K 1 row. Set RC at 000. Cont in patt A and shape as shown on diagram to row 13. Cont in patt B and shape as shown on diagram to row 137. 84 (94) sts.

Shape Top
Shape as shown on diagram to row 150 (152). Cont in patt A and shape as shown on diagram to row 163 (165). Cont in patt B and shape as shown on diagram to row 179 (183). Cast off rem 8 sts.

TO MAKE UP
Pin out to size and steam carefully. Using col 1, crochet edging around beads as in chart 2. Join shoulder, side (gathering front) and sleeve seams. Set in sleeves, gathering tops. Using col 1, work 2 rows of double crochet around lower sleeve and neck edges. Give final light steam.



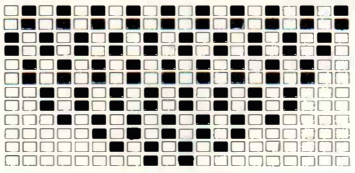
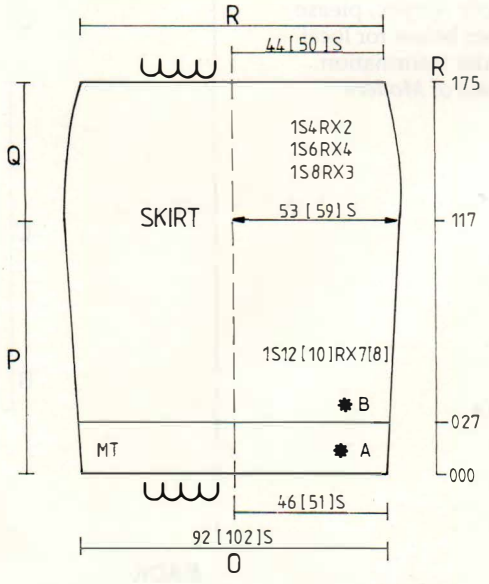


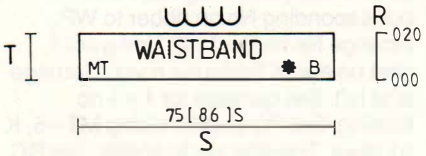
CHART A

SKIRT
BACK AND FRONT
Push 46 (51) Ns at left and right of centre 0 to WP. 92 (102) Ns. Using MT and WY, cast on and K a few rows ending with carriage at left. Using col 1, K 1 row. Set RC at 000. Cont in patt A, K 27 rows. Cont in patt B and shape as shown on diagram to row 117. 106 (118) sts. Shape as shown on diagram to row 175. 88 (100) sts. Using WY, K a few rows in st st and release from machine.



WAISTBAND (KNIT 2)
Push 75 (86) Ns to WP. With wrong side facing, pick up sts from below WY and place on to Ns gathering evenly. Set RC at 000. Using MT, cont in patt B. K 20 rows. Using WY, K a few rows in st st and release from machine.

TO MAKE UP
Pin out to size and steam carefully. Using col 1, crochet edging around beads as in chart 2. Fold waistband in half to inside and graft loops to first row of waistband. Join side seams, leaving a small opening in waistband for elastic. Insert elastic and join ends. Using col 1, work 2 rows of double crochet around lower edge. Give final light steam.



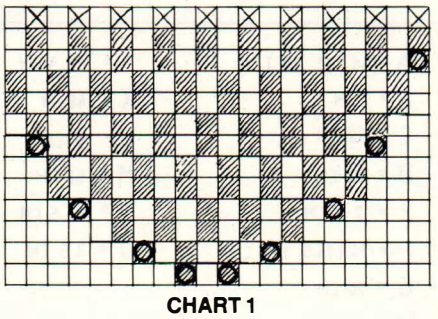


CHART 1

= ST KNITTED IN COL 2

Pattern 1

A = 50.5 [55] CM	L = 44 CM
B = 19 CM	M = 14 [15] CM
C = 18.5 CM	N = 38 [42] CM
D = 19.5 [21.5] CM	O = 41.5 [46] CM
E = 2 CM	P = 33.5 CM
F = 9 [11] CM	Q = 18 CM
G = 22 CM	R = 40 [45] CM
H = 1 CM	S = 34 [39] CM
I = 21 CM	T = 6 CM
J = 5 CM	
K = 20 CM	

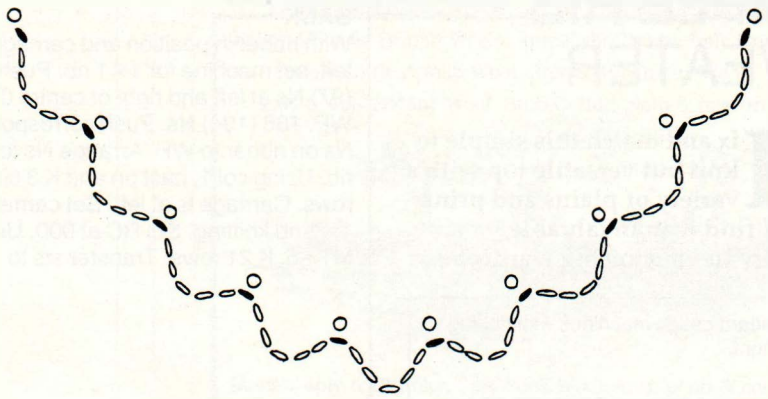


CHART 2

○ = **BEAD**

⬭ = **CHAIN STITCH**

⬬ = **DOUBLE CROCHET**

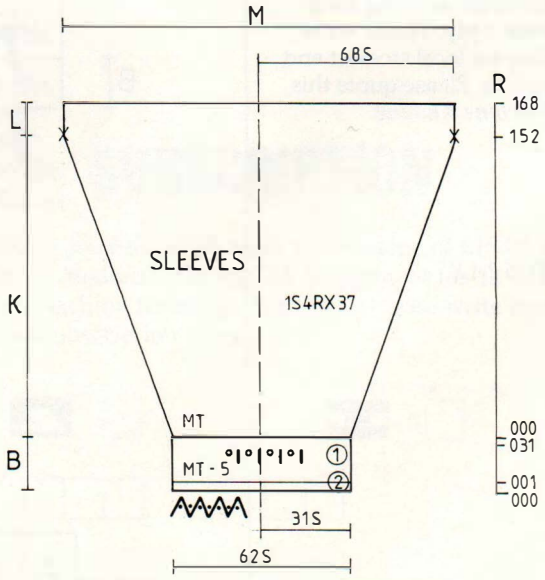
Pattern 2

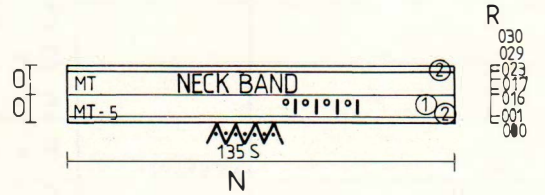
◀41

SLEEVES
With ribber in position and carriage at left, set machine for 1×1 rib. Push 31 Ns at left and right of centre 0 to WP. 62 Ns. Push corresponding Ns on ribber to WP. Arrange Ns for 1×1 rib. Using col 2, cast on and K 4 circular rows. Carriage is at right. Set carriage for 1×1 rib knitting. Set RC at 000. Using MT–5, K 1 row. Using col 1, K 30 rows. Transfer sts to knitter. Set RC at 000. Using MT, shape as shown on diagram. 136 sts. K to row 152. Place marker at each end. K to row 168. Mark centre with WY. Cast off.

NECKBAND
Join right shoulder seam. With ribber in position and carriage at left, set machine for 1×1 rib. Using col 2, cast on 135 sts in 1×1 rib. K 4 circular rows. Carriage is at right. Set carriage for 1×1 rib knitting. Set RC at 000. Using MT–5, K 1 row. Using col 1, K 15 rows. Transfer sts to knitter. Using MT, K 1 row. With right side facing, pick up sts around neck edge and place on to Ns. K 6 rows. Set Russel levers to I. Push every 7th N to HP. K 6 rows slowly (to make sure Ns at each side of HP Ns are knitting correctly). Set Russel levers to II. Using col 2, K 1 row. Cast off, making a chain after each st is cast off to make a loose edge.

TO MAKE UP
Pin out to size and steam carefully. Join left shoulder and neckband seam. Pin petal edging into position and backstitch around petals to hold in place. Set in sleeves sewing rows above markers to cast off sts at armholes. Join side and sleeve seams. Give final light steam.





SIMPLE RIB SWEATER

Mix and match this simple to knit but versatile top with a variety of plains and prints – you'll find it an invaluable accessory in your spring wardrobe.

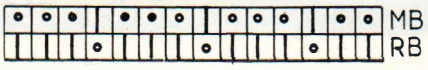
For standard gauge machines with ribbing attachment.

SIZES:
To fit 81-86 (91-96) cms, 32-34 (36-38) inch bust.

APPROXIMATE YARN TYPES AND AMOUNTS:
King Cole Carolina 4 ply Cotton.
Col 1 (Old Rose) – 500 (550) grms.

TENSION:
Rib Pattern – 36 sts and 46 rows to 10 cms.
TDs at approx 8 (MT) on knitter and 6 (MT–2) on ribber.

PATTERN NOTE:
RIB PATTERN
Needle Arrangement:



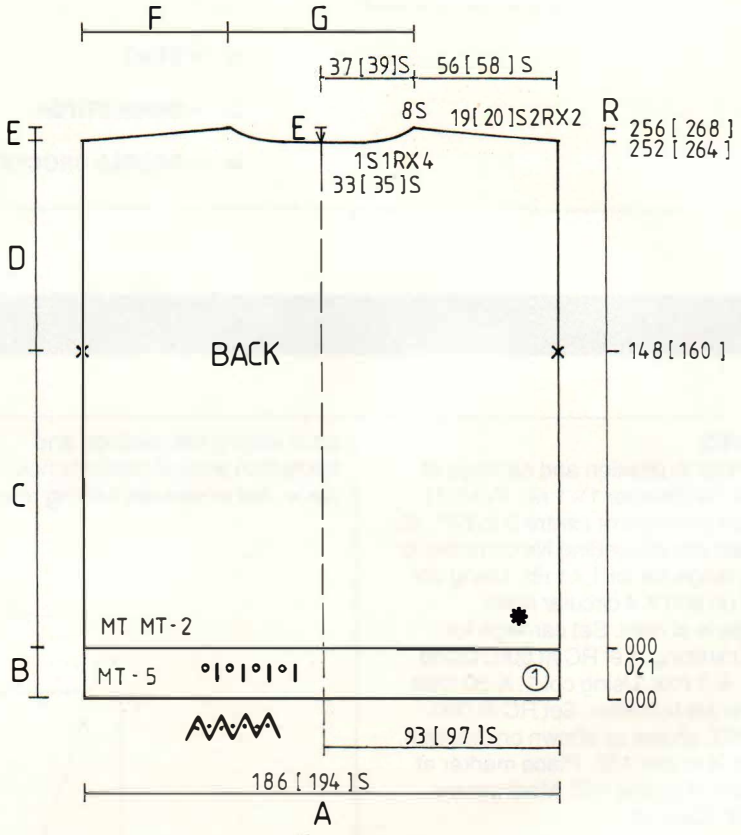
Punchcard Machines – left side lever back. Cam lever to slip.
Electronic Machines – Cam lever to C.
Keep work well weighted throughout. Use edge weights and move them up every 20 rows.

If you have any problems locating King Cole Carolina Cotton 4 ply, please write to the address below for local stockist and mail order information. Please quote this issue of *Modern Machine Knitting*.

King Cole Ltd
Merrie Mills
Old Souls Way
Bingley
West Yorkshire BD16 2AX

BACK
With ribber in position and carriage at left, set machine for 1×1 rib. Push 93 (97) Ns at left and right of centre 0 to WP. 186 (194) Ns. Push corresponding Ns on ribber to WP. Arrange Ns for 1×1 rib. Using col 1, cast on and K 3 circular rows. Carriage is at left. Set carriage for 1×1 rib knitting. Set RC at 000. Using MT–5, K 21 rows. Transfer sts to needle arrangement. Set RC at 000. Using MT on knitter and MT–2 on ribber, cont in rib patt. K to row 148 (160). Place marker at each end. K to row 252 (264).

Shape Back Neck and Shoulder
Shape as shown on diagram to row 256 (268). Cast off rem 18 sts. K left part as for right part.



A = 51.5 [53.5] CM	I = 37 [38.5] CM
B = 5 CM	J = 15 [15.5] CM
C = 32 [34.5] CM	K = 7 CM
D = 22.5 CM	L = 52.5 [55] CM
E = 1 CM	M = 3.5 CM
F = 15.5 [16] CM	
G = 20.5 [21.5] CM	
H = 6 CM	

Skirt – Coppernob

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EMBROIDERED JACKET

This stylish jacket would look good with a toning shirt and skirt for a complete outfit. The bright flower motifs are embroidered with pearls to add a designer finish.

For standard gauge punchcard and electronic machines.

SIZES:
To fit 81 (86, 91, 96) cms, 32 (34, 36, 38) inch bust.

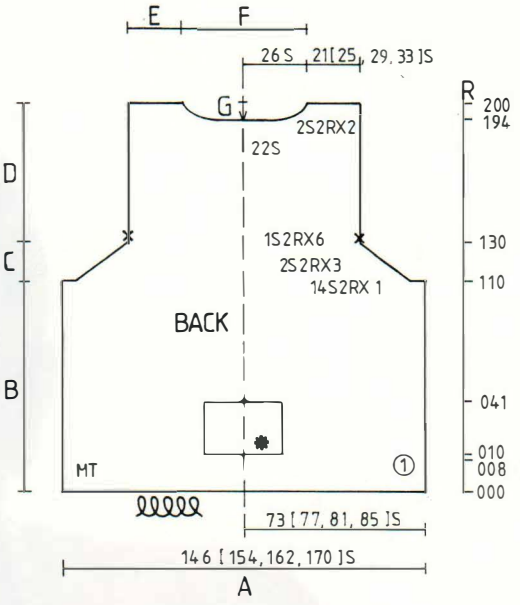
APPROXIMATE YARN TYPES AND AMOUNTS:
King Cole Anti-Tickle 4 ply Wool.
Col 1 (Aran) – 1×500 grm cone.
Col 2 (Larkspur) – 30 grms.
Col 3 (Linden) – A small amount.
Pearl beads.
7 Larkspur buttons.

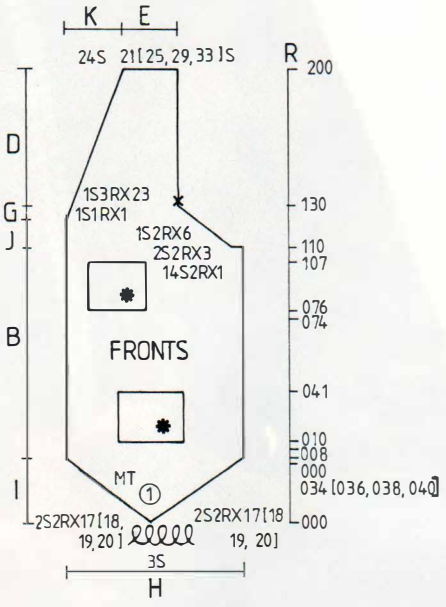
TENSION:
Stocking Stitch – 30 sts and 39 rows to 10 cms. TD at approx 8 (MT).

PATTERN NOTE:
Single Motifs – see charts.
Lock card on row 1. Set machine for position of single motif over the numbers given. K 2 rows st st. Release card. Set carriage for Fair Isle, With col 1 in feeder 1 and col 2 in feeder 2, K 31 rows.

If you have any problems locating King Cole Anti-Tickle 4 ply Wool, please write to the address below for local stockist and mail order information. Please quote this issue of *Modern Machine Knitting*.

King Cole Ltd
Merrie Mills
Old Souls Way
Bingley
West Yorkshire BD16 2AX





BACK
Push 73 (77, 81, 85) Ns at left and right of centre 0 to WP. 146 (154, 162, 170) Ns. Using col 1, cast on by hand. Set RC at 000. Using MT, K 8 rows. Cont in single motif patt over 13 Ns at left and 14 Ns at right of centre 0 (electronic) or centre 24 Ns (punchcard), K to row 41. Cont in st st and col 1, K to row 110.

Shape Armholes
Shape as shown on diagram to row 130. 94 (102, 110, 118) sts. Place marker at each end. K to row 194.

Shape Back Neck
Shape as shown on diagram to row 200. Cast off rem (21 (25, 29, 33) sts. K left part as for right part.

RIGHT FRONT
Push 1 N at left and 2 Ns at right of centre 0 to WP. 3 Ns. Using col 1, cast on by hand. Set RC at 000. Using MT, shape as shown on diagram to row 34 (36, 38, 40). 71 (75, 79, 83) sts. Set RC at 000. K to row 8. Cont in single motif pattern over 13 Ns at left and 14 Ns at right of centre 0 (electronic) or centre 24 Ns (punchcard), K to row 41. Cont in st st and col 1, K to row 74.
ELECTRONIC MACHINES
Cont in single motif patt over Ns 5 to 31 inclusive at left of centre 0.
PUNCHCARD MACHINES
Using WY, K a few rows and release from machine. Push 17 (19, 21, 23) Ns at left and 54 (56, 58, 60) Ns at right of centre 0 to WP. 71 (75, 79, 83) Ns. With P side facing, replace sts on to Ns. Cont in single motive patt over centre 24 Ns.
ALL MACHINES
K to row 107. Cont in st st and col 1, K to row 120.

Shape Armhole
Shape as shown on diagram to row 124.

Skirt – Freemans Hairband – K+L Accessories Jewellery – Corocraft Tights – Pretty Polly

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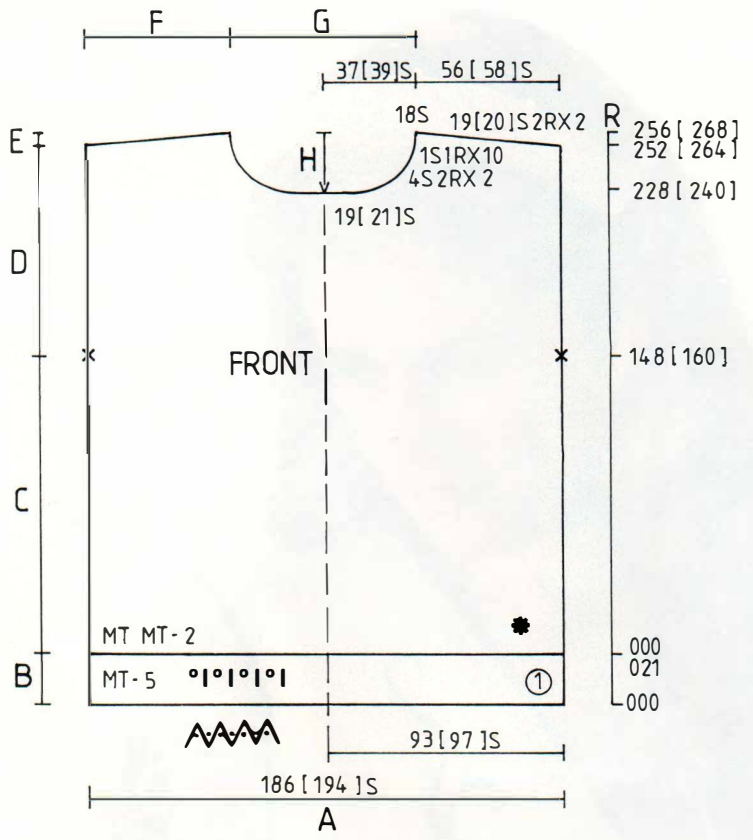
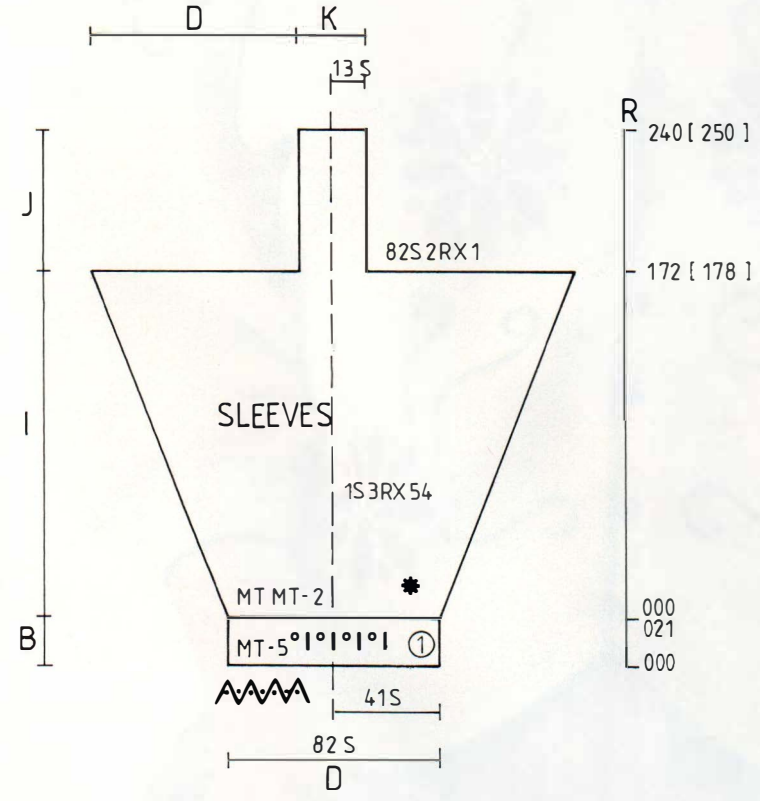
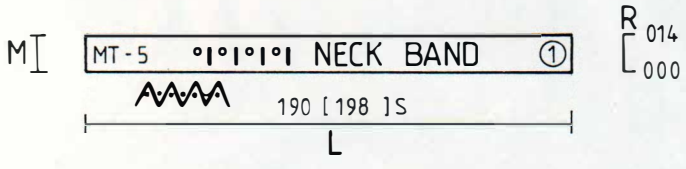
Pattern 3

◀ 44







FRONT
K as for back to row 228 (240).
Shape Neck
Shape as shown on diagram. 56 (58) sts. K to row 252 (264).
Shape Shoulder
Shape as shown on diagram to row 256 (268). Cast off rem 18 sts. K left part as for right part.

SLEEVES
With ribber in position and carriage at left, set machine for 1×1 rib. Push 41 Ns at left and right of centre 0 to WP. 82 Ns. Push corresponding Ns on ribber to WP. Arrange Ns for 1×1 rib. Using col 1, cast on and K 3 circular rows. Carriage is at left. Set carriage for 1×1 rib knitting. Set RC at 000. Using MT−5, K 21 rows. Transfer sts to needle arrangement. Set RC at 000. Using MT on knitter and MT−2 on ribber, cont in rib patt. Shape as shown on diagram. 190 sts. K to row 172 (178).
Shape Saddle Shoulder
Shape as shown on diagram. 26 sts. K to row 240 (250). Cast off.

NECKBAND
With ribber in position and carriage at left, set machine for 1×1 rib. Using col 1, cast on 190 (198) sts in 1×1 rib. K 3 circular rows. Carriage is at left. Set carriage for 1×1 rib knitting. Set RC at 000. Using MT−5, K 14 rows. Cast off loosely.

TO MAKE UP
Pin out to size and steam carefully. Join side edges of sleeve extensions to shoulders (stretching slightly) and cast off edges of sleeve tops to armhole edges between markers. Join side and sleeve seams. Sew cast off edge of neckband into position and join centre back seam. Give final light steam.

◀46

Shape Front Edge
Shape as shown on diagram to row 200, marking right edge on row 130. Cast off rem 21 (25, 29, 33) sts.

LEFT FRONT
K as for right front but in reverse (insert punchcard back to front).

SLEEVES (OPTIONAL)
Push 58 Ns at left and right of centre 0 to WP. 116 Ns. Using col 1, cast on by hand. Set RC at 000. Using MT, shape as shown on diagram. 130 rows. K to row 124.

Shape Top
Cont in single motif patt over 13 Ns at left and 14 Ns at right of centre 0 (electronic) or centre 24 Ns (punchcard), AT THE SAME TIME, shape as shown on diagram to row 144. Place marker at each end. Cont in motif patt and shape as shown on diagram to row 157. Cont in st st and col 1 and shape as shown on diagram to row 190. Cast off rem 42 sts.

TO MAKE UP
Pin out to size and steam carefully. Using col 3, embroider in chain stitch as shown in photograph, cont embroidery on back. Sew pearl beads to centre of all flowers as shown in photograph. Join shoulder and side seams.

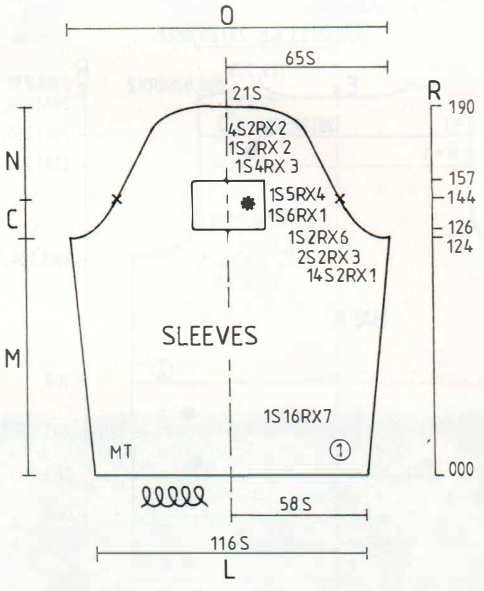
Cardigan
Join sleeve seams. Set in sleeves, pleating top.

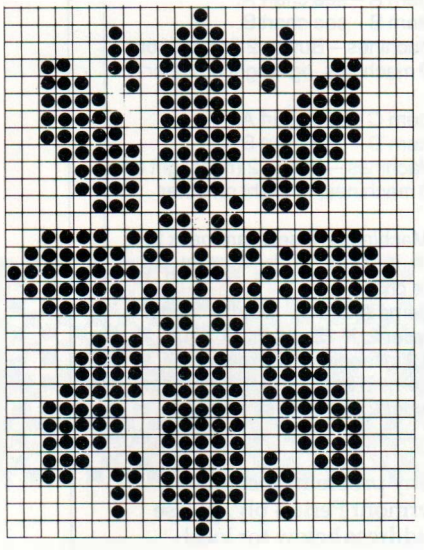
CROCHET BANDS
HEM, FRONT AND NECK BAND
Starting at right side seam, with right side facing and using crochet hook that comes with machine, join in col 1, work 1 row of DC along hem, fronts and neck edge. Join with a sl st, turn, 2 CH. Work 1 TR into each DC of the previous round, working 2 TR at points of fronts. Join with a sl st to 2 CH. Work 1 DC into each TR of previous round, working 2 DC into each of the 2 centre TR at points of fronts. Using col 2, work 1 DC into each DC of previous round. Fasten off securely.

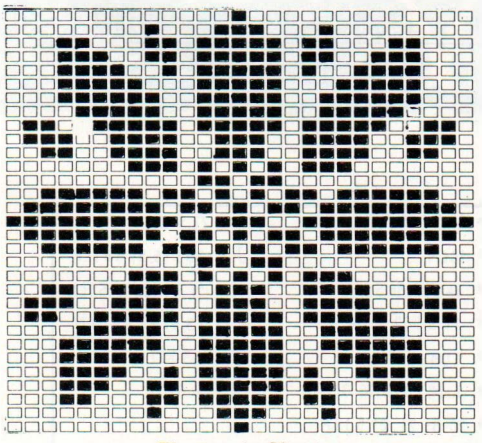
CUFFS (OPTIONAL)
With right side facing, join in col 1, work 1 row of DC along lower edge of sleeve, working 1 DC into alt cast on sts. * Join with a sl st, turn, 2 CH, work 1 TR into each DC of the previous round *. Rep from * to * 5 times more reading TR for DC. Work 1 DC into each TR of previous round. Using col 2, work 1 DC into each DC of previous round. Fasten off securely.

ARMBANDS
With right side facing, join in col 1, work 1 row of DC around armhole edge. Join with a sl st, turn, 2 CH, work 1 TR into each DC of the previous round. Join with a sl st to 2 CH. Work 1 DC into each TR of previous round. Using col 2, work 1 DC into each DC of previous round. Fasten off securely.

TO COMPLETE
Press crochet bands. Sew on evenly spaced buttons to left front. Give final light steam.







Electronic Chart

A = 48.5 [51, 54, 56.5] CM	L = 38.5 CM
B = 28 CM	M = 31.5 CM
C = 5 CM	N = 12 CM
D = 18 CM	O = 43 CM
E = 7 [8.25, 9.75, 11] CM	
F = 17 CM	
G = 1.5 CM	
H = 23.5 [25, 26.25, 27.5] CM	
I = 8.5 [9, 9.5, 10] CM	
J = 3.5 CM	
K = 8 CM	

TULIP PATTERN SWEATER

This unusual and striking design features a bold intarsia tulip motif with co-ordinating floral borders to get you in the mood for spring.

For standard gauge punchcard and electronic machines with intarsia carriage.

SIZES:
To fit 81-86 (91-96, 101-106) cms, 32-34 (36-38, 40-42) inch bust.

APPROXIMATE YARN TYPES AND AMOUNTS:
Spectrum Vermont Perlé 4 ply.
Col 1 (Pot Pourri) – 225 (240, 255) grms.
Col 2 (Cream) – 300 (320, 350) grms.
Col 3 (Water Green) – 50 (50, 50) grms.

TENSION:
Stocking stitch – 31 sts and 40 rows to 10 cms. TD at approx 8 (MT).

PATTERN NOTE:
Fair Isle Pattern A – see chart A.
Fair Isle Pattern B – see chart B.
Electronic Machines – Button 2 (left light on 580 and 840 machines, right light on other models).
Fair Isle Pattern C – see chart A.
Fair Isle Pattern D – see chart B.
Electronic Machines – Button 2 (right light on 580 and 840 machines, left light on other models).
Punchcard Machines – Insert card back to front.
Intarsia – see chart.
Fair Isle Patterns A and C – Col 1 in feeder 1, col 3 in feeder 2, K 12 rows. Col 1 in feeder 1, col 2 in feeder 2, K 8 rows.
Fair Isle Patterns B and D – Col 2 in feeder 1, col 1 in feeder 2, K 15 rows.

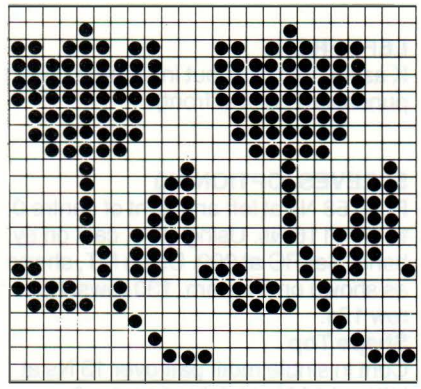
If you have any problems locating Spectrum Vermont Perlé 4 ply, please write to the address below for local stockist and mail order information. Please quote this issue of *Modern Machine Knitting*.

Spectrum Yarns
Spa Mill
New Street
Slaithwaite
Huddersfield
West Yorkshire HD7 5BB

BACK
Push 85 (91, 97) Ns at left and right of centre 0 to WP. 170 (182, 194) Ns. Using MT and WY, cast on and K a few rows ending with carriage at right. Set RC at 000. Using MT−1 and col 1, K to row 47. Using MT+2, K 1 row. Set RC at 000. Using MT−1, K 12 rows. Using MT, cont in Fair Isle patt A, K 20 rows. Using MT−1, cont in st st and col 1, K 12 rows. Turn up a hem. Using MT and col 2, K 2 rows. Using MT+1, cont in Fair Isle patt B, K 15 rows. Using MT, cont in st st and col 2, K 2 rows. Using col 1, K 4 rows. Using MT+1, cont in Fair Isle patt C, K 20 rows. Using MT, cont in st st and col 1, K 4 rows. Using col 2, K 2 rows. Using MT+1, cont in Fair Isle patt D, K 15 rows. Using MT, cont in st st and col 2, K to row 180 (184, 190).

Shape Armholes
Shape as shown on diagram to row 218 (226, 238). 110 (116, 122) sts. Using col 1, K 4 rows. Using MT+1, cont in Fair Isle patt A, K 20 rows. Using MT, cont in st st and col 1, K to row 266 (274, 286).

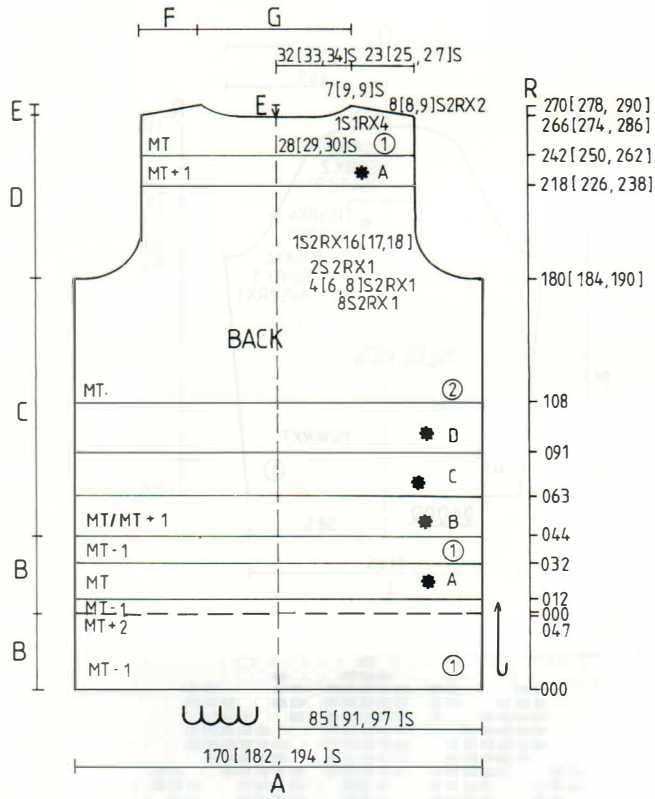
Shape Back Neck and Shoulders
Shape as shown on diagram to row 270 (278, 290). Cast off rem 7 (9, 9) sts. K left part as for right part.



Punchcard Chart A

FRONT
K as for back to row 120 (124, 130). Cont in intarsia patt over centre 140 Ns. K to row 180 (184, 190).

Shape Armholes
Shape as shown on diagram to row 210 (214, 220). Cont in st st and col 2, cont



A = 54.5[58.5,62.5]CM	I = 27.5 CM
B = 10 CM	J = 35[36.5,38]CM
C = 34[35,36.5]CM	K = 11.5[12,12.5]CM
D = 21.5[22.5,24]CM	L = 43.5[45,46]CM
E = 1 CM	M = 43[47,47]CM
F = 7.25[8,8.75]CM	N = 4.5 CM
G = 20.5[21,21.5]CM	
H = 6 CM	

53 ▶

Skirt – Empire Tights – Pretty Polly

fair-isle fabrics **Set 1**
for every and 'alternate' needles (for chunky knitting) — for punchcard (24st) and electronic machines. **£1.50**

Set 2 knitweave designs
with 'cut floats' and other textural designs. — for punchcard (24st) and electronic machines. **£1.50**

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realistic designs with 'short floats' on the reverse side — for punchcard (24st), electronic and Passap/Pfaff machines. **£1.50**

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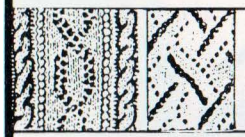

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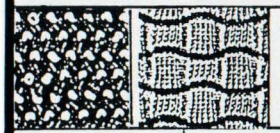

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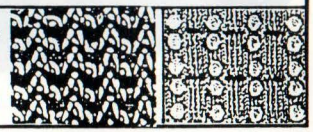

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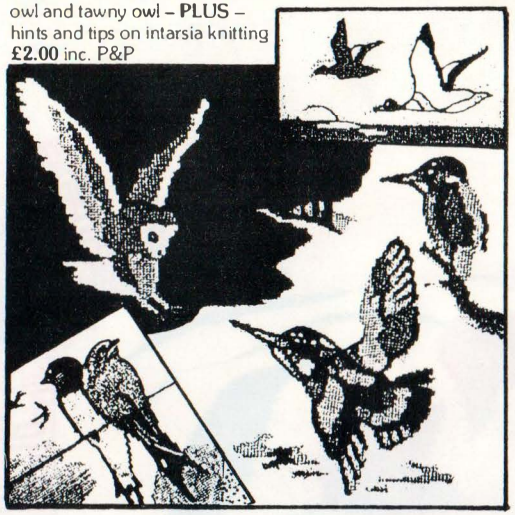

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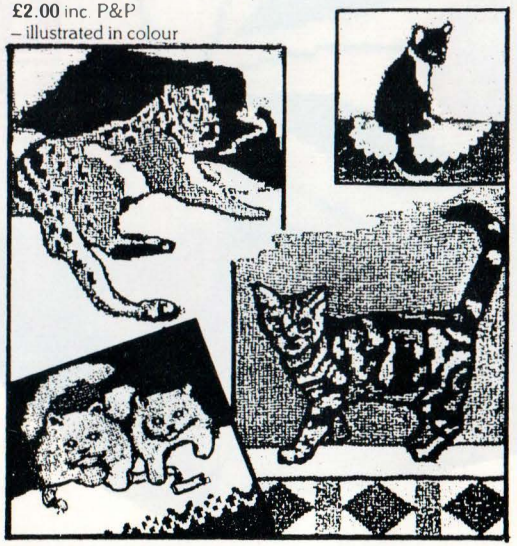

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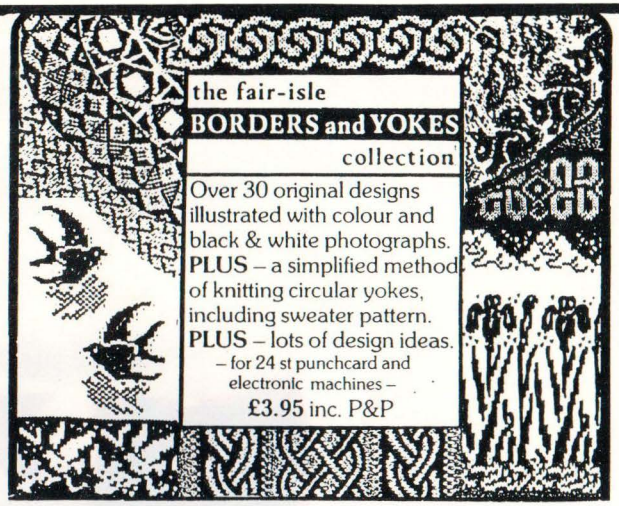

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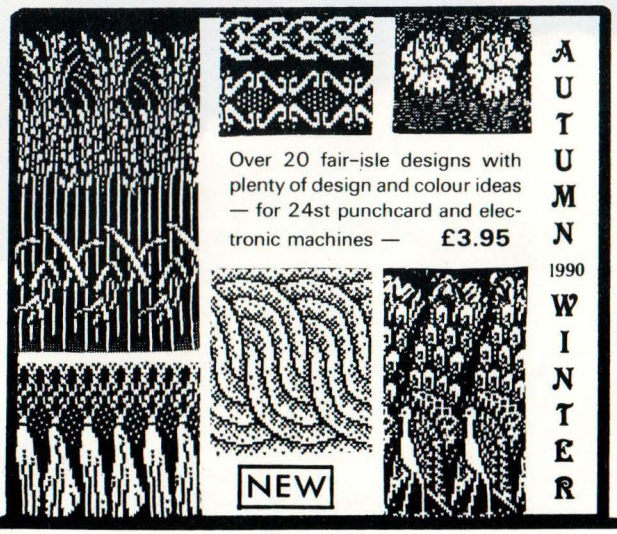

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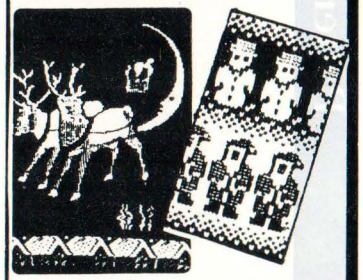

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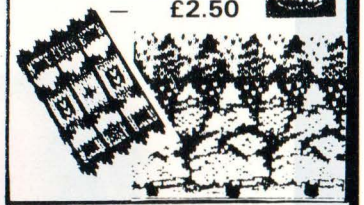

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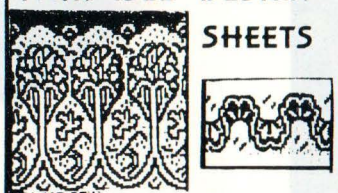

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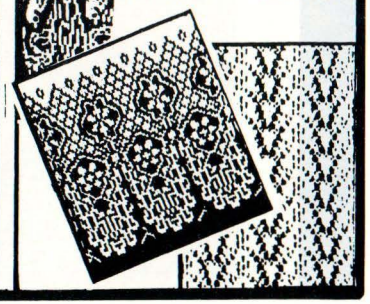


◀ 50

to shape to row 218 (226, 238). 110 (116, 122) sts. Using col 1, K 4 rows. Using MT+1, cont in Fair Isle patt A, K 20 rows. Using MT, cont in st st and col 1 to row 246 (254, 266).

Shape Neck

Shape as shown on diagram to row 266 (274, 286). 23 (25, 27) sts.

Shape Shoulder

Shape as shown on diagram to row 270 (278, 290). Cast off rem 7 (9, 9) sts. K left part as for right part.

SLEEVES

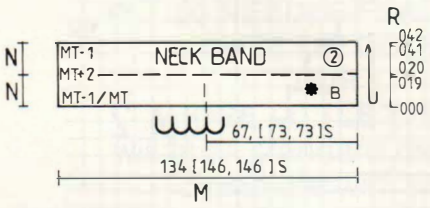
Push 43 Ns at left and right of centre 0 to WP. 86 Ns. Using MT and WY, cast on and K a few rows ending with carriage at right. Set RC at 000. Using MT−1 and col 1, K to row 47. Using MT+2, K 1 row. Set RC at 000. Using MT−1, K 12 rows. Using MT, cont in Fair Isle patt A, K 20 rows. Using MT−1, cont in st st and col 1, K 12 rows. Turn up a hem. Using MT and col 2, K 2 rows. Shape as shown on diagram, AT THE SAME TIME, using MT+1, cont in Fair Isle patt B, K 15 rows. Using MT, cont in st st and col 2 to row 184 (190, 196). 136 (140, 144) sts.

Shape Top

Shape as shown on diagram to row 230 (238, 246). Cast off rem 40 sts.

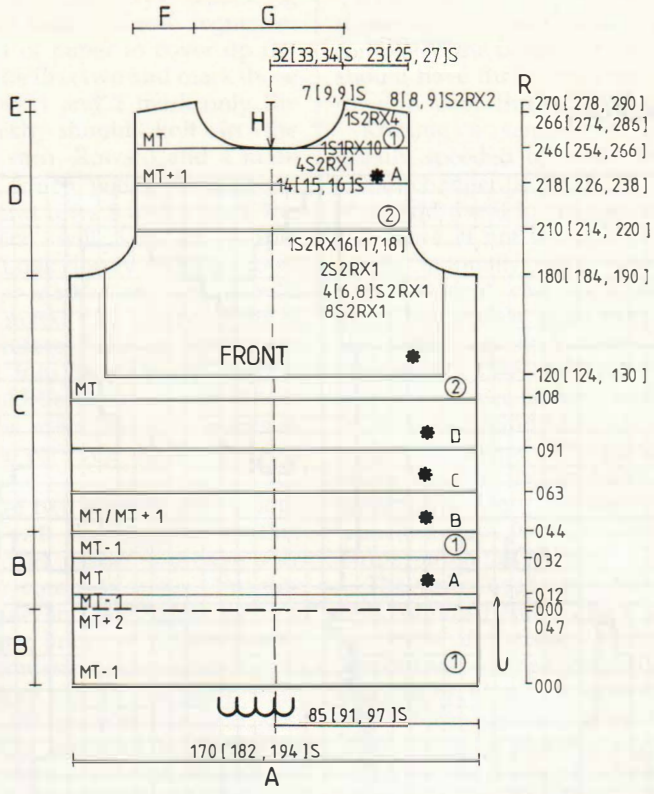
NECKBAND

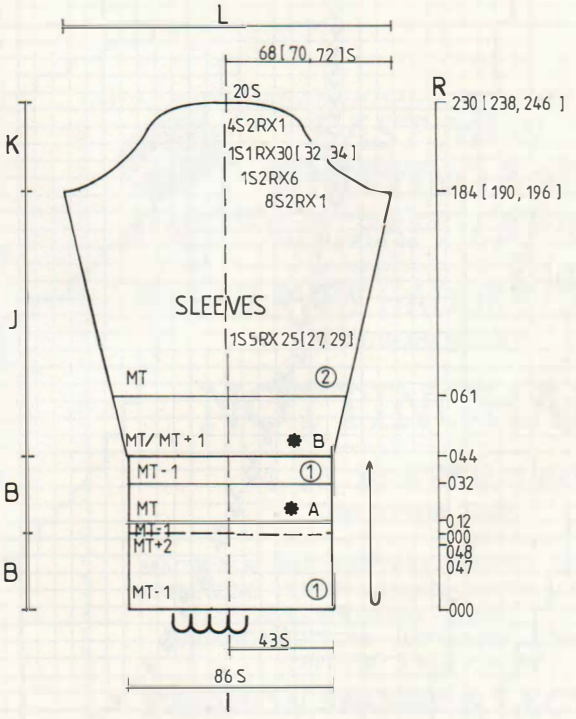
Join right shoulder seam. Push 67 (73, 73) Ns at left and right of centre 0 to WP. 134 (146, 146) Ns. Using MT and WY, cast on and K a few rows ending with carriage at right. Set RC at 000. Using MT−1 and col 2, K 2 rows. Using MT, cont in Fair Isle patt B, K 15 rows. Using MT−1, cont in st st and col 2, K 2 rows. Using MT+2, K 1 row. Using MT−1, K 21 rows. Turn up a hem. Using MT, K 1 row. With wrong side facing, pick up sts around neck edge and place on to Ns. Using MT+2, K 2 rows. Cast off.

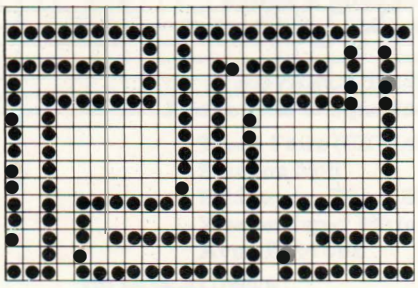


TO MAKE UP

Pin out to size and steam carefully. Join left shoulder and neckband seam. Join side and sleeve seams. Set in sleeves. Swiss darn as shown on chart, remembering that chart shows reverse of design on right side of work. A length of cotton tape inserted through lower hem will help prevent the edge from stretching when worn. Make sure the tape lies flat and catch in position by stitching to inside of fold line at each side. Give final light steam.







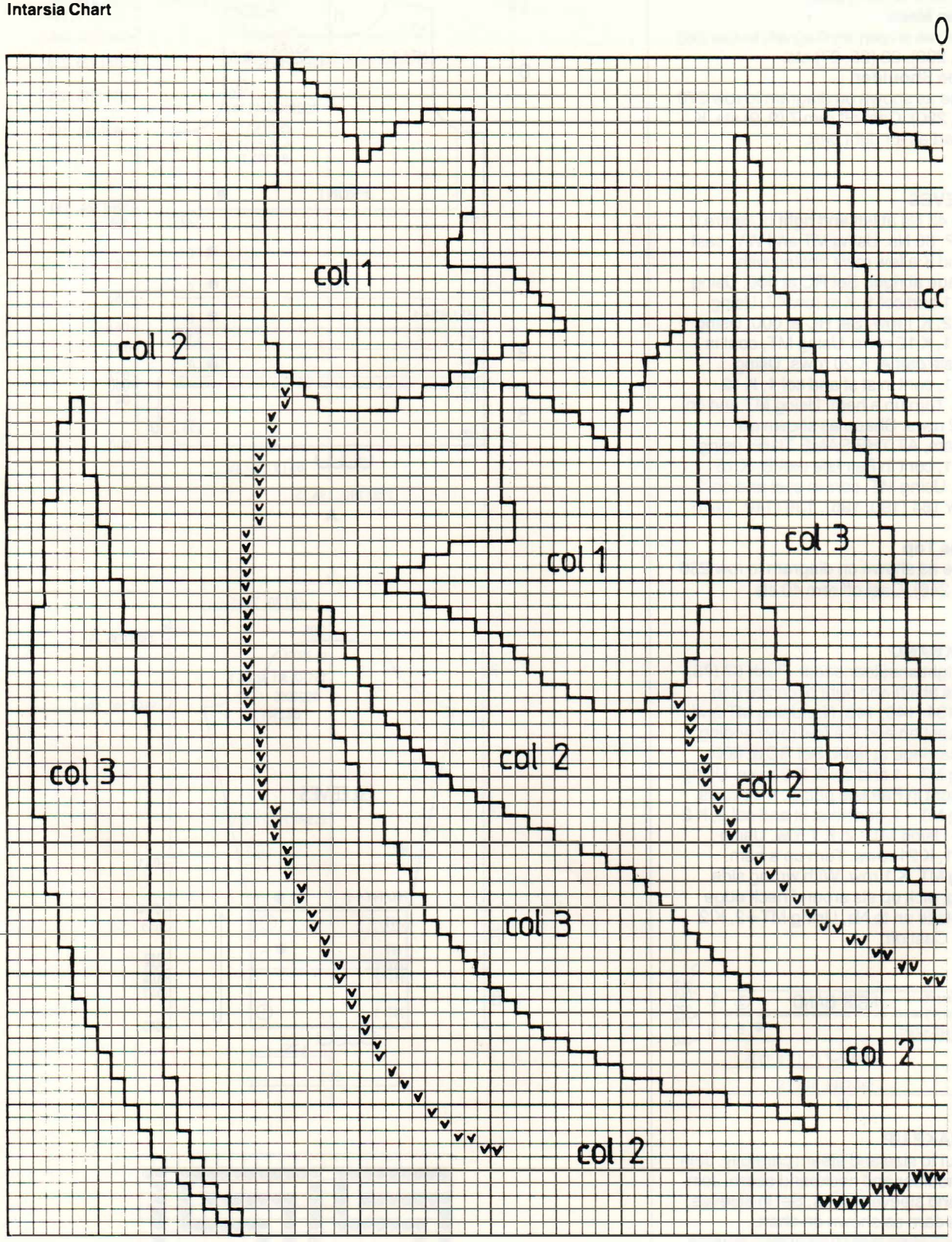
Punchcard Chart B

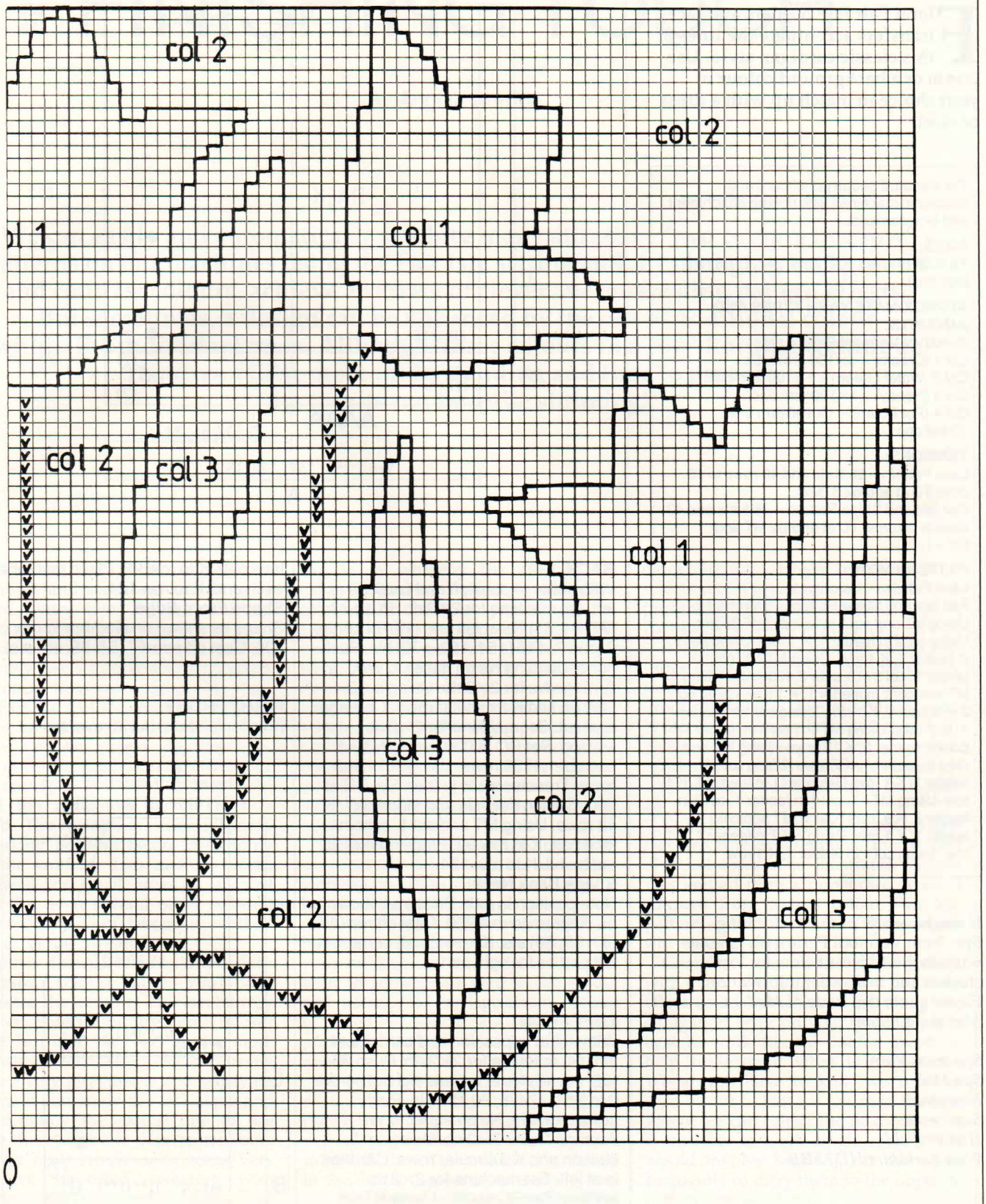
54▶

Pattern 5

◀53

Intarsia Chart

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LACE & FLOWERS CARDIGAN

Floral Fair Isle borders and lace transfers accentuate the lines of this classic cardigan style. Use cream or a background colour of your choice to match up with a dress or skirt.

For standard gauge punchcard and electronic machines with ribbing attachment and lace carriage.

SIZES:
To fit 86 (91, 96, 101) cms, 34 (36, 38, 40) inch bust.

APPROXIMATE YARN TYPES AND AMOUNTS:
Spectrum Vermont Perlé 4 ply.
Col 1 (Cream) – 4×100 grm balls.
Col 2 (Water Green) – 1×100 grm ball.
Col 3 (Honey) – 1×100 grm ball.
Col 4 (Pot Pourri) – 1×100 grm ball.
10 buttons.

TENSIONS:
Lace Pattern – 26.5 sts and 40 rows to 10 cms. TD at approx 8 (MT).
Fair Isle and Stripe Pattern – 26.5 sts and 40 rows to 10 cms. TD at approx MT and MT+1.

PATTERN NOTE:
Lace Pattern – see chart 1.
Fair Isle and Stripe Pattern – see chart 2. Using MT and col 1 in feeder 1, K 2 rows. Using col 2 in feeder 1, K 1 row. Using col 1 in feeder 1, K 1 row. Using MT+1, col 1 in feeder 1, col 3 in feeder 2, K 9 rows. Using MT and col 1 in feeder 1, K 1 row. Using col 2 in feeder 1, K 1 row. Using col 1 in feeder 1, K 2 rows. Using MT+1, col 1 in feeder 1, col 4 in feeder 2, K 15 rows. Using MT and col 1 in feeder 1, K 2 rows. Using col 2 in feeder 1, K 1 row. Using col 1 in feeder 1, K 1 row. Using MT+1, col 1 in feeder 1, col 3 in feeder 2, K 9 rows. Using MT and col 1 in feeder 1, K 1 row. Using col 2 in feeder 1, K 1 row. Using col 1 in feeder 1, K 1 row.

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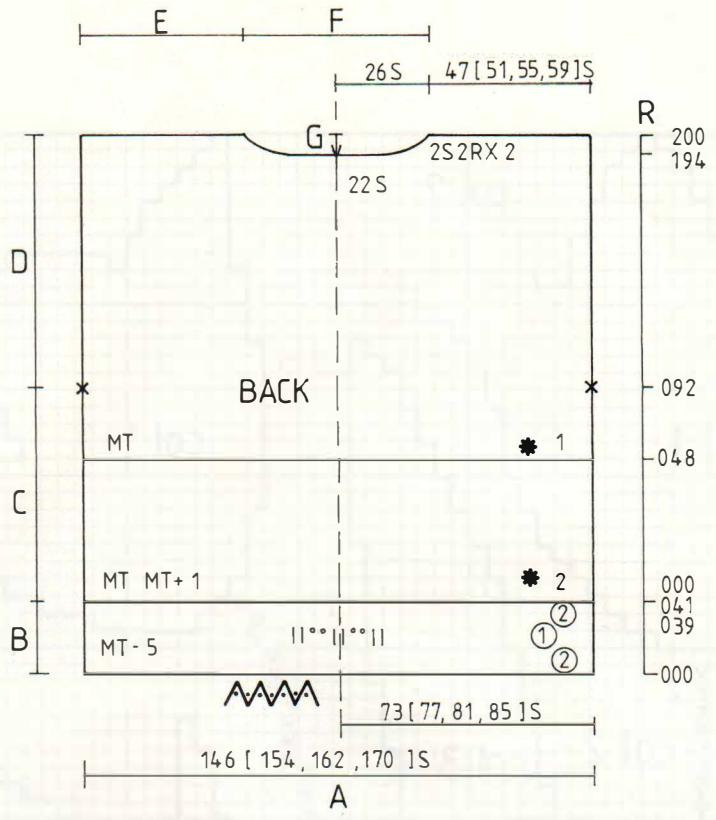


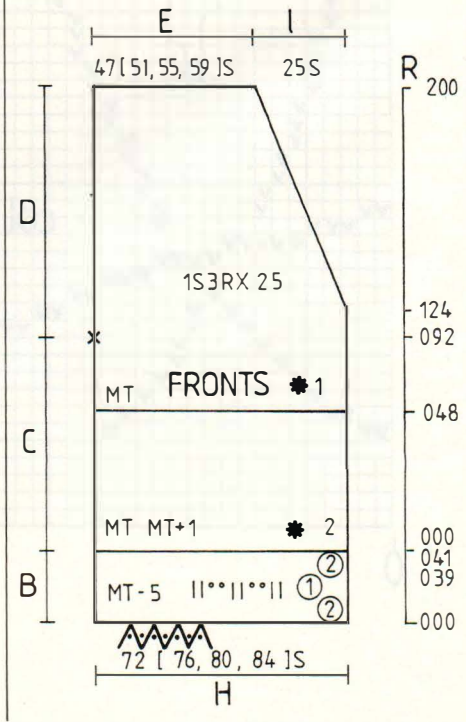
BACK
With ribber in position and carriage at left, set machine for 2×2 rib. Push 73 (77, 81, 85) Ns at left and right of centre 0 to WP. 146 (154, 162, 170) Ns. Push corresponding Ns on ribber to WP. Arrange Ns for 2×2 rib. Using col 2, cast on and K 3 circular rows. Carriage is at left. Set machine for 2×2 rib knitting. Set RC at 000. Using MT−5 and col 1, K 39 rows. Using col 2, K 2 rows. Transfer sts to knitter. Set RC at 000. Cont in Fair Isle and stripe patt, K 48 rows. Using MT and col 1, cont in lace patt. K to row 92. Place marker at each end. K to row 194.

Shape Back Neck
Note position in patt. Shape as shown on diagram to row 200. Cast off rem 47 (51, 55, 59) sts. Keeping patt correct, K left part as for right part.

LEFT FRONT
With ribber in position and carriage at left, set machine for 2×2 rib. Push 36 (38, 40, 42) Ns at left and right of centre 0 to WP. 72 (76, 80, 84) Ns. Push corresponding Ns on ribber to WP. Arrange Ns for 2×2 rib. Using col 2, cast on and K 3 circular rows. Carriage is at left. Set machine for 2×2 rib knitting. Set RC at 000. Using MT−5 and col 1, K 39 rows. Using col 2, K 2 rows. Transfer sts to knitter. Set RC at 000. Cont in Fair Isle and stripe patt, K 48 rows. Using MT and col 1, cont in lace patt. K to row 92. Place marker at each end. K to row 124.

Shape Front Edge
Shape as shown on diagram to row 200. Cast off rem 47 (51, 55, 59) sts.

RIGHT FRONT
K as for left front but in reverse.



60▶

Earrings – Fenwick Trousers – Empire Tights – Pretty Polly

ANGORA AND CROCHET TOP

The soft and luxurious feel of pastel pink Angora combines with pretty crocheted edgings to create this elegant design. Wear it with navy separates for a classic look or team it up with whites for a real spring feel.

For standard gauge machines with ribbing attachment.

SIZES:
To fit 81-86 (91-96, 101-106) cms, 32-34 (36-38, 40-42) inch bust.

APPROXIMATE YARN TYPES AND AMOUNTS:
Nina A. Miklin Angora.
Col 1 (Baby Pink) – 250 (300, 350) grms.

TENSIONS:
Stocking Stitch – 27 sts and 37 rows to 10 cms. TD at approx 8 (MT).
1×1 Rib – 41 rows to 10 cms. TD at approx MT–5.

PATTERN NOTE:
Stocking Stitch
Use a three ended transfer tool when shaping armholes and top of sleeves.

If you have any problems locating Nina Miklin Angora, please write to the address below for local stockist and mail order information. Please quote this issue of *Modern Machine Knitting*.

Nina A. Miklin
104 Biddulph Mansion
Elgin Avenue
Maida Vale
London W9 1HU

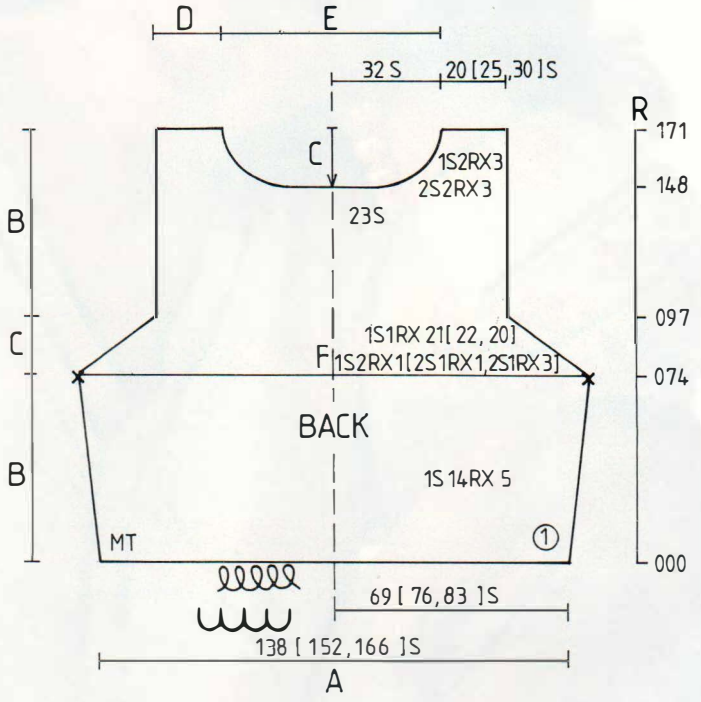
BACK
Push 69 (76, 83) Ns at left and right of centre 0 to WP. 138 (152, 166) Ns. Using MT and WY, cast on and K a few rows ending with carriage at right. Push Ns to HP. Using col 1, cast on by hand. Push Ns to UWP. Set RC at 000. Shape as shown on diagram. 148 (162, 176) sts. K to row 74. Place marker at each end.

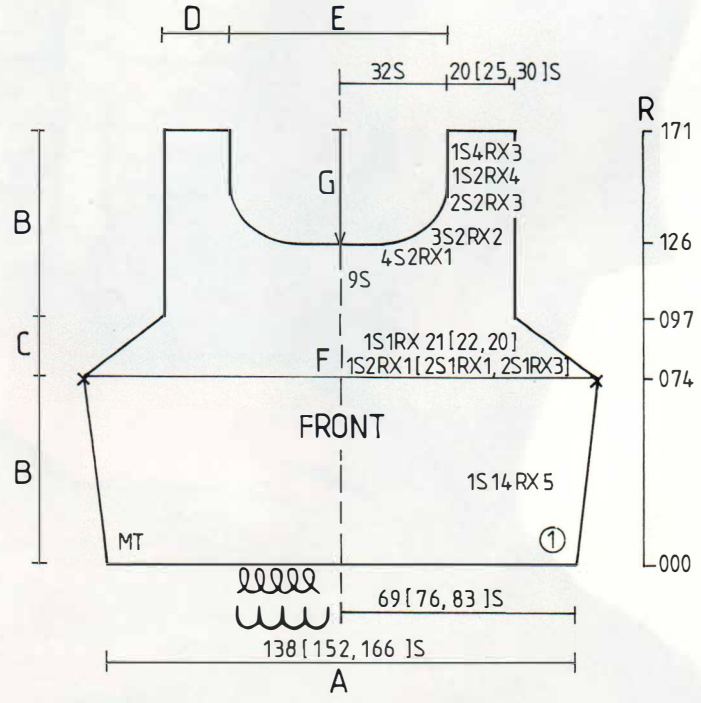
Shape Armholes
Shape as shown on diagram to row 97. 104 (114, 124) sts. K to row 148.

Shape Back Neck
Shape as shown on diagram to row 171. Cast off rem 20 (25, 30) sts. K left part as for right part.

FRONT
K as for back to row 126.

Shape Neck
Shape as shown on diagram to row 171. Cast off rem 20 (25, 30) sts. K left part as for right part.





Hairband – K+L Accessories Leggings – Empire Jewellery & belt – Fenwick Tights – Pretty Polly

61▶

Pattern 6

◀ 56

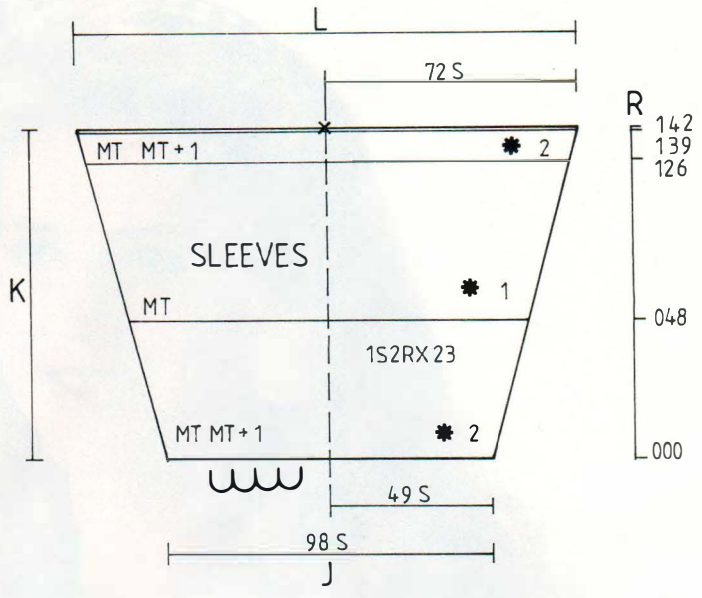
SLEEVES
Push 49 Ns at left and right of centre 0 to WP. 98 Ns. Using MT and WY, cast on and K a few rows ending with carriage at right. Set RC at 000. Shape as shown on diagram, AT THE SAME TIME, cont in Fair Isle and stripe patt, K 48 rows. Using MT and col 1, cont in lace patt to row 126. Starting with 3rd row, cont in Fair Isle and stripe patt to row 139. Cont in st st and col 1, K to row 142. 144 sts. Mark centre with WY. Cast off.

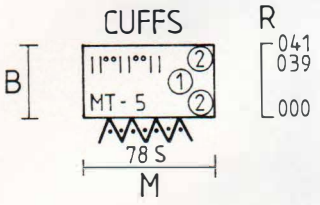
CUFFS
With ribber in position and carriage at left, set machine for 2×2 rib. Push 78 Ns on each bed to WP. Arrange Ns for 2×2 rib. Using col 2, cast on and K 3 circular rows. Carriage is at left. Set machine for 2×2 rib knitting. Set RC at 000. Using MT−5 and col 1, K 39 rows. Using col 2, K 2 rows. Transfer sts to knitter. With wrong side of sleeve facing, pick up sts from below WY and place on to Ns gathering evenly. Using MT and col 1, K 1 row. Cast off.

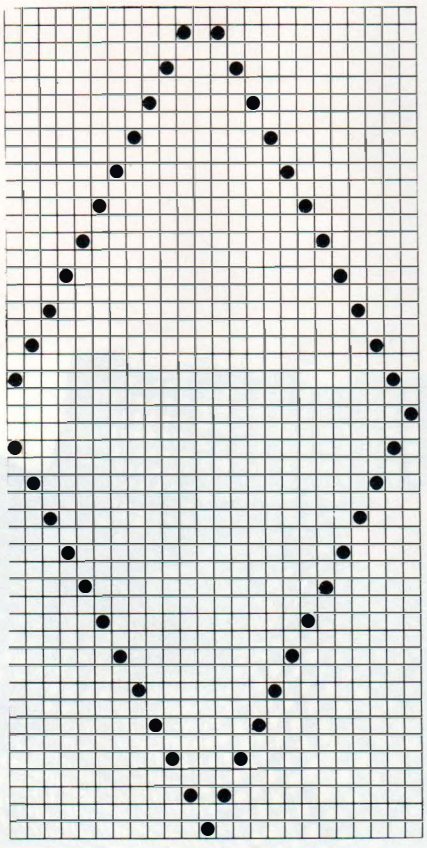
TO MAKE UP
Pin out to size and steam carefully. Join shoulder seams. Starting at lower edge of right front, with right side facing, join in col 2, work 1 row of DC along right front, around back neck and down left front. Turn. Using col 1, 2 CH into first st, work 1 TR into each DC of previous row. Turn. 2 CH, work 1 TR into each TR of previous row. Turn. Using col 2, 2 CH in first st, work 1 DC into each TR of previous row. Fasten off. Set in sleeves between markers. Join side and sleeve seams. Sew on buttons in pairs at equal intervals. Give final light steam.

ABBREVIATIONS
KEY
CH = chain
DC = double crochet
TR = treble

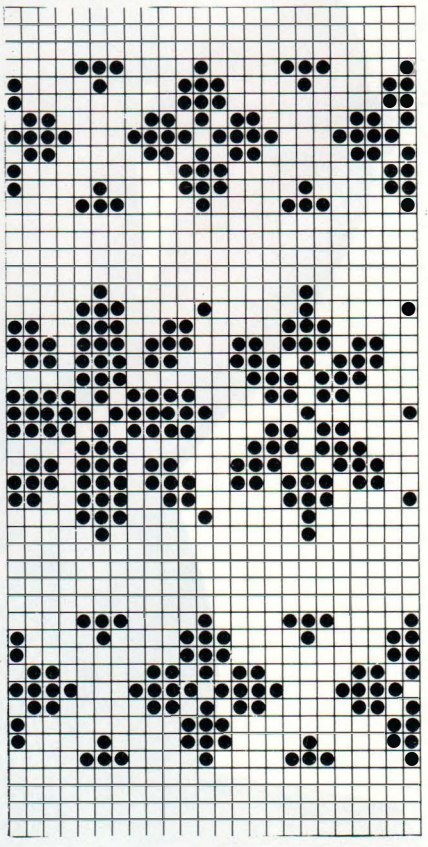
A = 55 [58, 61, 64] CM
B = 7.5 CM
C = 23 CM
D = 27 CM
E = 17.5 [19, 20.5, 22] CM
F = 20 CM
G = 1.5 CM
H = 27 [28.5, 30, 31.5] CM
I = 9.5 CM
J = 36.5 CM
K = 35.5 CM
L = 54 CM
M = 14 CM [unstretched]







Punchcard
Lace Patt 1



Punchcard
Fair Isle Patt 2

◀ 58

SLEEVES
With ribber in position and carriage at left, set machine for 1×1 rib. Push 35 Ns at left and right of centre 0 to WP. 70 Ns. Push corresponding Ns on ribber to WP. Arrange Ns for 1×1 rib. Using col 1, cast on and K 3 circular rows. Carriage is at left. Set carriage for 1×1 rib knitting. Set RC at 000. Using MT–5, K 25 rows. Transfer sts to knitter. Set RC at 000. Using MT, shape as shown on diagram. 142 sts. K to row 154 (152, 150). Place marker at each end.

Shape Top
Shape as shown on diagram to row 186. Mark centre with WY. Cast off rem 108 sts.

BACK NECKBAND
With ribber in position and carriage at left, set machine for 1×1 rib. Using col 1, cast on 92 sts in 1×1 rib. K 3 circular rows. Carriage is at left. Set carriage for 1×1 rib knitting. Set RC at 000. Using MT–5, K 12 rows. Transfer sts to knitter. Using MT, K 1 row. Using WY, K a few rows and release from machine.

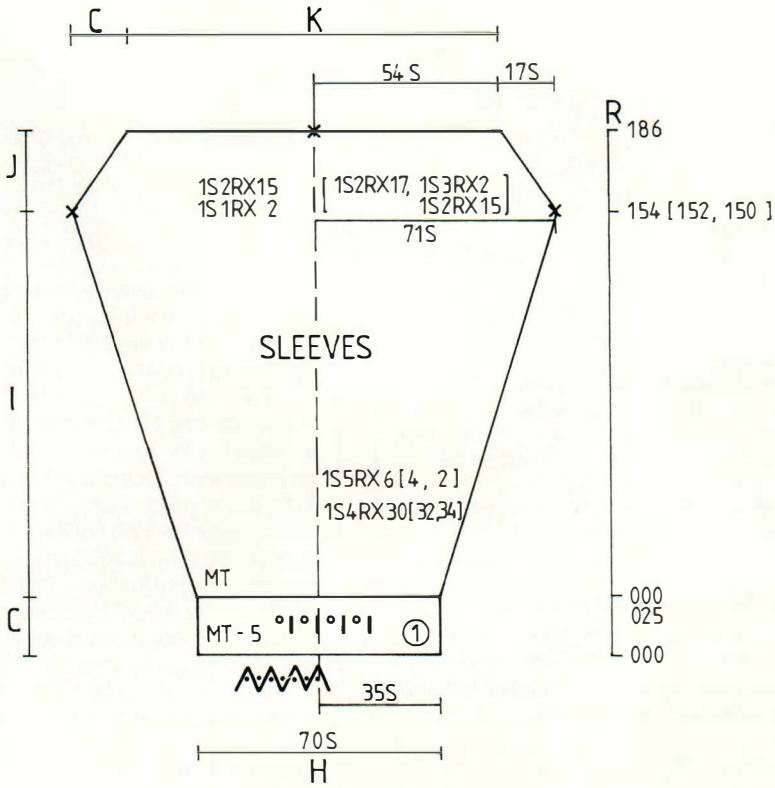
FRONT NECKBAND
With ribber in position and carriage at left, set machine for 1×1 rib. Using col 1, cast on 114 sts in 1×1 rib. K 3 circular rows. Carriage is at left. Set carriage for 1×1 rib knitting. Set RC at 000. Using MT–5, K 12 rows. Transfer sts to knitter. Using MT, K 1 row. Using WY, K a few rows and release from machine.

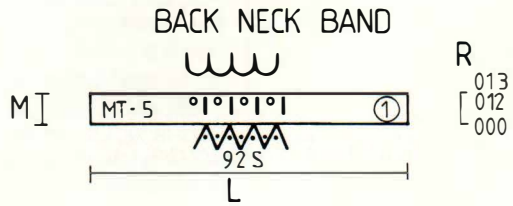
TO MAKE UP
Pin out to size and steam carefully. Join shoulder seams. Set in sleeves. Join side and sleeve seams. Backstitch neckbands in to position and join seams. Using col 1, crochet along lower edge as follows:

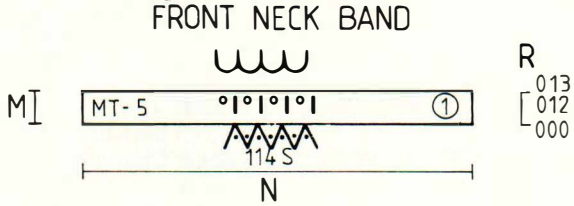
Crochet Border
Row 1: Work 1 DC into every st along edge of garment. Work 1 CH in end, turn.
Row 2: 3 CH, DTR in to 2nd DC, * 1 CH, miss 1 DC, DTR in to next DC *. Rep from * to * to end. Work 1 CH, turn.
Row 3: * 8 CH, miss 2 DTR, DC in to next DTR *. Rep from * to * to end, turn.
Row 4: 5 CH (TR in loop, 2 CH), 4 times * 1 DC in next loop, 2 CH in next loop (1 TR, 2 CH), 5 times *. Rep from * to * to end, turn.
Row 5: 5 CH, * (1 TR, 3 CH) in next 4 TR, TR in next TR, 1 CH, DC in DC, 1 CH *. Rep from * to * to end.
Row 6: 3 CH, 3 TR in 2nd space, 4 TR in each of next 2 spaces, miss 1 space, * DC in DC, miss 1 space, 4 TR in each of next 3 spaces, miss 1 space *. Rep from * to * to end. Fasten off. Give final light steam.

CROCHET ABBREVIATIONS
KEY
CH = chain
SS = slip stitch
DC = double crochet
TR = treble
DTR = double treble

A = 51 [56, 61] CM	H = 26 CM
B = 20 CM	I = 41.5 [41, 40.5] CM
C = 6 CM	J = 8.5 [9, 9.5] CM
D = 7 [9, 11] CM	K = 40 CM
E = 24 CM	L = 34 CM
F = 55 [60, 65] CM	M = 3 CM
G = 12 CM	N = 42 CM







ROMAN WALL DESIGN

For a different look, knit this unusual tuck stitch design in two colours of your choice. The luxury Silk content of this yarn makes it soft and lightweight for spring knitwear.

For standard gauge punchcard machines with ribbing attachment and YC6 colour changer (optional).

SIZES:
To fit 86 (91, 96, 101) cms, 34 (36, 38, 40) inch bust.

APPROXIMATE YARN TYPES AND AMOUNTS:
Celandine Sienna.
Col 1 (Shade 11) – 1×250 grm cone.
Col 2 (Shade 2) – 2 (3, 3, 3,) ×50 grm balls.

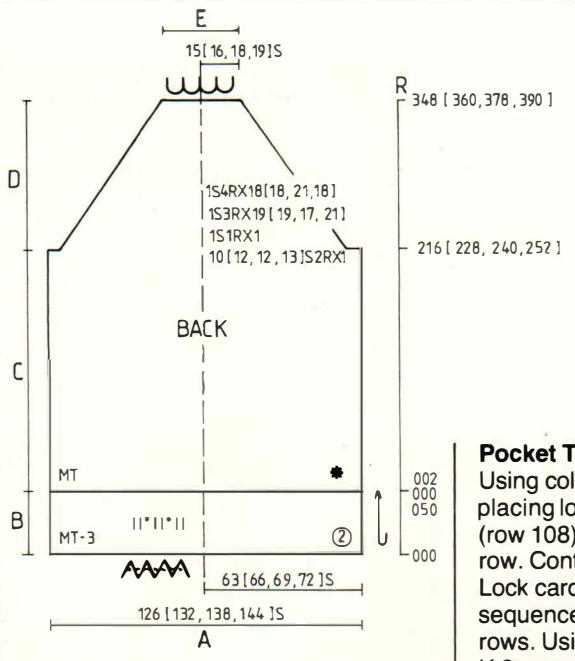
TENSION:
Tuck Stitch – 27 sts and 60 rows to 10 cms.
TD at approx 5 (MT).

PATTERN NOTE:
Tuck Stitch – see charts.
Tuck Stitch Pattern
Release card. Set carriage for tuck st. * K 6 rows col 1, 2 rows col 2, 4 rows col 1, 2 rows col 2, 6 rows col 1, 2 rows col 2, 4 rows col 1, 2 rows col 2, 6 rows col 1 and 2 rows col 2 *. Rep from * to * throughout.
Use a triple ended transfer tool when shaping raglan armholes.

If you have any problems locating Celandine Sienna, please write to the address below for local stockist and mail order information. Please quote this issue of *Modern Machine Knitting*.

Celandine Ltd
44 Kirkgate
Otley
West Yorkshire LS21 3HJ

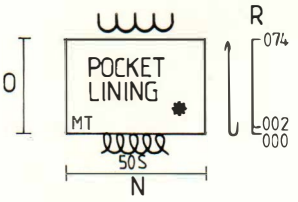
A = 46.5 [48.5, 51, 53] CM	K = 40 [42, 44, 45] CM
B = 9 CM	L = 13 [14, 15.5, 16] CM
C = 36 [38, 40, 42] CM	M = 3 CM
D = 22 [22, 23, 23] CM	N = 18.5 CM
E = 11 [11.5, 13, 14] CM	O = 12.25 CM
F = 19 [19, 20, 20] CM	P = 52.5 [55.5, 61, 64] CM
G = 14.5 [15.5, 17, 17.5] CM	Q = 1 CM
H = 3.5 CM	R = 4.5 CM
I = 26 [27, 28.5, 29.5] CM	S = 5 CM
J = 34 [34.5, 36, 38.5] CM	



BACK
With ribber and close knit bar in position and carriage at left, set machine for 2×2 rib (2×1 N arrangement). Push 63 (66, 69, 72) Ns at left and right of centre 0 to WP. 126 (132, 138, 144) Ns. Push corresponding Ns on ribber to WP. Arrange Ns for 2×2 rib (2×1 N arrangement). Using col 2, cast on and K 3 circular rows. Carriage is at left. Set machine for 2×2 rib knitting. Set RC at 000. Using MT−3, K 50 rows. Remove comb and close knit bar. Transfer sts to knitter. Make a hem by picking up alt sts from cast on edge and placing on to corresponding Ns. Insert card and lock on row 1. Set RC at 000. Using MT, K 2 rows. Cont in tuck st patt. K to row 216 (228, 240, 252).

Shape Raglan Armholes
Shape as shown on diagram to row 348 (360, 378, 390). Using WY, K a few rows in st st over rem 30 (32, 36, 38) sts and release from machine.

POCKET LINING
Push Ns 6 to 55 inclusive at right of centre 0 to WP. 50 Ns. Using col 2, cast on by hand. Insert card and lock on row 1. Set RC at 000. Using MT, K 2 rows. Cont in tuck st patt. K to row 74. Using WY, K a few rows in st st and release from machine.



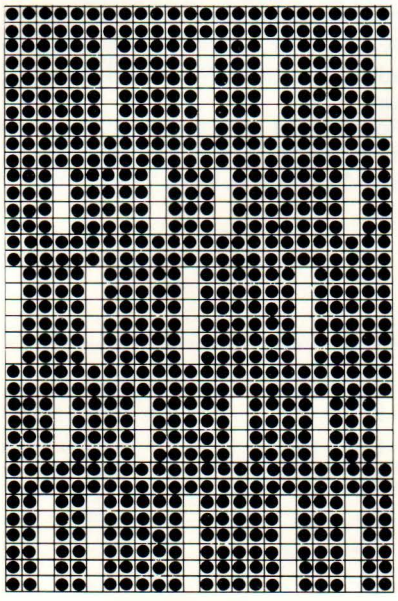
FRONT
K as for back to row 110.

Pocket Opening
Push 68 (71, 74, 77) Ns at left and 8 (11, 14, 17) Ns at right into HP. 50 Ns rem in WP. Set Russel levers to I. Lock card on row 1.

Pocket Top
Using col 2, K 5 rows. Make a hem by placing loops of last row worked in col 1 (row 108) on to corresponding Ns. K 1 row. Cont in tuck st patt, K 13 rows. Lock card and note position in colour sequence. Cont in st st and col 2, K 2 rows. Using MT+1, K 1 row. Using MT, K 3 rows. Release card. Set carriage for tuck st. Cont in tuck st patt, keeping colour sequence correct as noted. K 13 rows. Using col 2, cast off. Using a transfer tool, bring Ns at left and right from HP to WP. With P side of pocket lining facing, replace sts on to empty Ns. Lock card on row 1. Take carriage across twice without knitting. Reset RC at 110. Cont in tuck st patt, K to row 216 (228, 240, 252).

Shape Raglan Armholes
Shape as shown on diagram to row 306 (318, 336, 348).

Shape Neck
Note position in patt. Set carriage for partial knitting. Always taking yarn round first inside N in HP, cont to shape raglan edge, AT THE SAME TIME, push Ns shown on diagram to HP. Push rem N to HP. K right part as for left part. Push centre 40 (42, 46, 48) Ns from HP to UWP. Cont in st st and col 1, K 2 rows. Using WY, K a few rows and release from machine.



Punchcard Chart

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Hat – Clothkits Skirt – Country Casuals Tights – Pretty Polly

Pattern 8

◀62

LEFT SLEEVE
With ribber and close knit bar in position and carriage at left, set machine for 2×2 rib (2×1 N arrangement). Push 71 (74, 77, 80) Ns on each bed to WP. Arrange Ns for 2×2 rib (2×1 N arrangement). Using col 2, cast on and K 3 circular rows. Carriage is at left. Set machine for 2×2 rib knitting. Set RC at 000. Using MT−3, K 50 rows. Remove comb and close knit bar. Transfer sts to knitter. Make a hem by picking up alt sts from cast on edge and placing on to corresponding Ns. Using MT, K 2 rows. Using WY, K a few rows and release from machine. Push 46 (47, 49, 52) Ns at left and right of centre 0 to WP. 92 (94, 98, 104) Ns. With carriage at left and wrong side of cuff facing, replace sts on to Ns increasing evenly. Insert card and lock on row 1. Take carriage across twice without knitting. Set RC at 000. Cont in tuck st patt. Shape as shown on diagram. 126 (132, 138, 144) sts. K to row 240 (252, 264, 270).

Shape Raglan Top
Shape as shown on diagram to row 352 (364, 382, 388). Set carriage for partial knitting. Always taking yarn round first inside N in HP, cont to shape raglan edge, AT THE SAME TIME, push Ns shown on diagram to HP. 1 N rem in WP. Push Ns from HP to UWP. Cont in st st and col 1, K 2 rows. Using WY, K a few rows and release from machine.

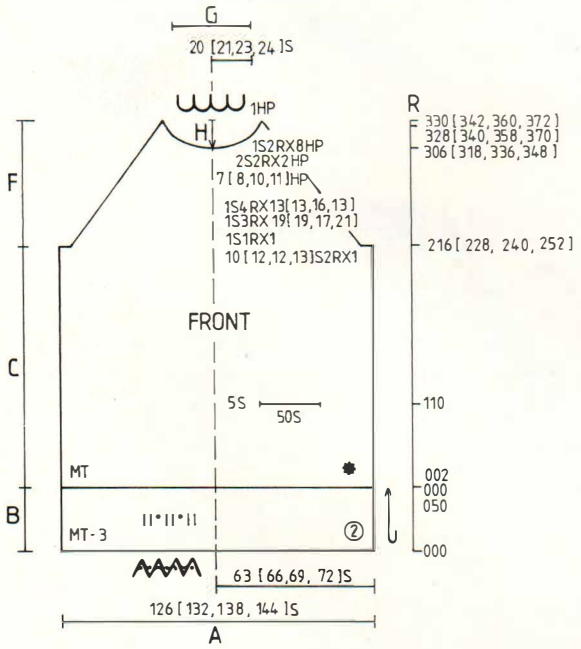
RIGHT SLEEVE
K as for left sleeve but in reverse.

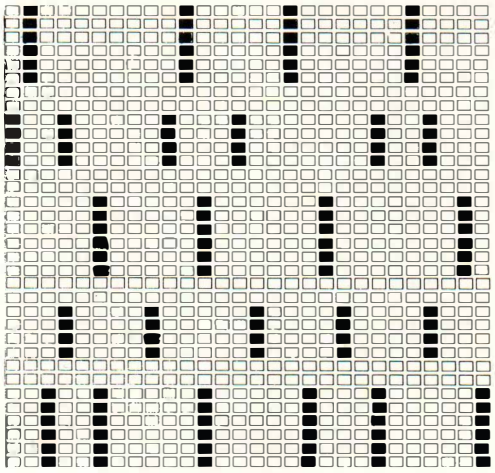
ROULEAUX CORDS (KNIT 4)
Using col 2, cast on 5 sts by hand. Set RC at 000. Using MT, cont in circular cord knitting. K until long enough to go along raglan edge. Cast off.

TO MAKE UP
Pin out to size and steam carefully. Join 3 raglan seams, sandwiching cord between pieces as piping (leave left back seam open).

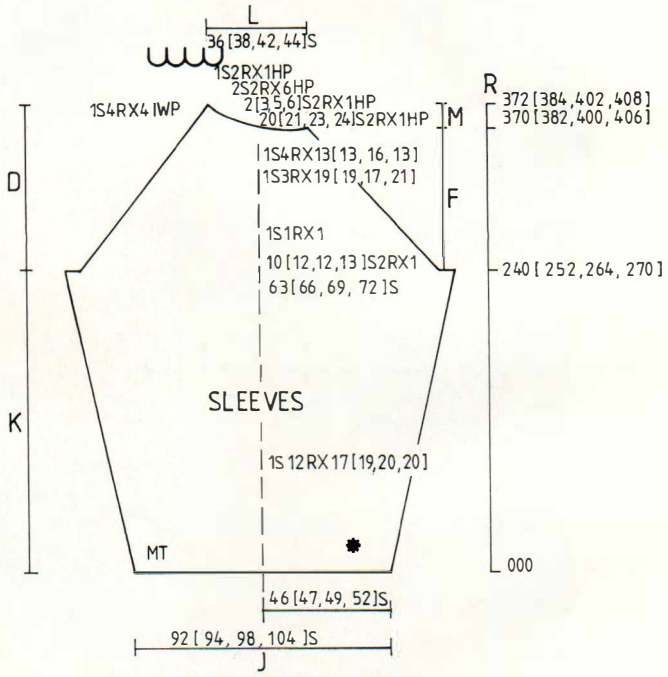
NECKBAND
Push 71 (75, 83, 87) Ns at left and right of centre 0 to WP. 142 (150, 166, 174) Ns. With carriage at left and wrong side facing, pick up sts around neck edge and place on to Ns. Insert card and lock on row 1. Set RC at 000. Using MT and col 2, K 5 rows. Make a hem by placing loops of first row worked in col 2 on to corresponding Ns. K 1 row. Set RC at 000. Cont in tuck st patt. Using MT−3, K 12 rows. Using MT−4, K 14 rows. Remove card. Cont in st st and col 2. Using MT−2, K 2 rows. Using MT, K 1 row. Using MT−2, K 3 rows. Using col 1, K 8 rows. Using MT−1, K 10 rows. Using MT, K 3 rows. Using WY, K a few rows and release from machine.

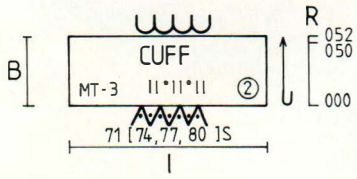
TO COMPLETE
Join left back raglan seam, sandwiching cord between. Join neckband seam. Fold neckband and pocket top in half to inside and catch down. Join side and sleeve seams. Catch down ends of pocket top neatly to right side and pocket lining to wrong side. Give final light steam.

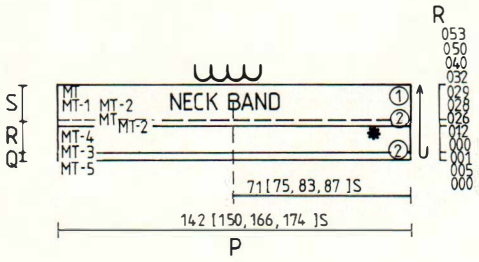




Electronic Chart







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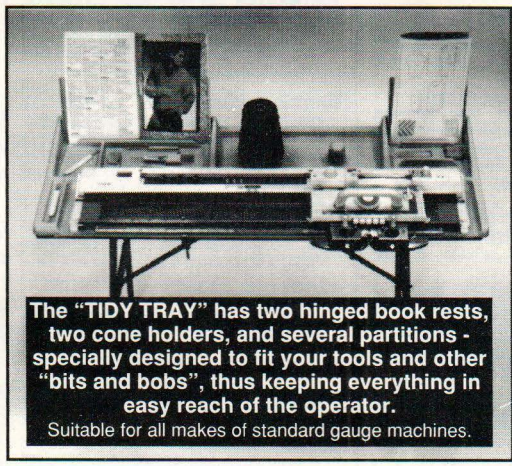

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FOR SALE

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KNITMASTER knitting machine, £100. Wool winder, table. 328 patterns, still boxed, as new, extras. Tel: 081-302 1902 (Sidcup).

KNITMASTER machine 326, lace carriage, punchcards, instruction books, perfect condition, £200, or will split. Knitmaster £125, lace carriage £75. Tel: (0621) 772261 (Maldon).

BROTHER 881, hardly used, with Knitleader, lace carriage, table, punch, punchcards, instruction manuals and pattern books. Excellent condition, as new, £285 ono. Tel: (0373) 472609 (Frome, Somerset).

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TOYOTA 901 Lace carriage, ribber, transfer carriage, £400. Chunky machine with intarsia, £100. Keyto cabinet, walnut with bench (new), £125. Tel: 081-644 9884 (Sutton).

TOYOTA 858 Lace carriage, punchcards, etc, used once, £150, also Knitmaster 302 with pattern cards, instruction books, etc. Very little used, £50. Tel: (0474) 352577 (Gravesend).

BROTHER 260 Chunky punchcard machine with ribber, intarsia, punch, table, brand new. Knitmaster Electronic 500 with ribber, excellent condition, £500 each. Tel: (0908) 677580 (Milton Keynes).

PFAFF 6000E four colour changer. Excellent condition, hardly used, £850 ono. Tel: (0472) 825250 (Grimsby).

KNITMASTER Ribber SRP60N as new, in box, new table. Plastic covers for SRP60N. New Betty Bailey ribber book. All new, £180 ono, room needed. Tel: (0793) 530892 (Swindon).

PASSAP 6000 four colour changer, never been used, will accept £1,000. Tel: (0978) 845986 (Rhos, Wrexham).

KNITMASTER Electronic 500, built in Knitradar, new table, wool winder, many extras, £200. Tel: (0302) 782146 (Doncaster).

KNITMASTER Zippy de luxe and table plus lace carriage, linker, pattern cards and other extras, all as new, £450. Tel: (0924) 469515 (Dewsbury).

BROTHER KH230 with ribber, £260. Tel: (0532) 342639 (Leeds).

BROTHER 910 Electronic, ribber, colour-changer, linker, transfer carriage, wool winder plus table and books, £445. Tel: (0702) 556961 (Southend).

FOR SALE

BROTHER KH881, KR830 ribber with built-in Knitleader, lace carriage, etc, plus table, puncher, magazines and punchcard selection, £380. Tel: (0981) 240751 (Hereford).

KNITMASTER Zippy Plus with lace carriage, Knitradar and patterns, linker, wool winder, three Ann Kite videos, punchcards, table, all items new, never used, £650. Tel: (0429) 881464 (Trimdon).

BROTHER KR260 Chunky ribber, unused, £190. Knitmaster Vistamatic Basic, single bed, £30. Wanted: Shadow lace tool. Tel: (0925) 740386 (Warrington).

BROTHER KH836 with garter carriage, lace carriage, wool winder, magazines, wool, £385. Tel: (0273) 582799 (Brighton).

PASSAP Duo 80 four colour changer Deco, pattern cards, tools, £385. Tel: (0482) 666330 (Hull).

PFAFF Duomatic 80 four colour changer Deco, punchcards, punch, three years old, hardly ever used, still have receipt, £325 for quick sale. Tel: (0562) 752308 (Kidderminster).

KNITMASTER 560 SRP60N Ribber, YC6 c/changer, transfer, intarsia, linker carriages, weaving arm, lace carriage, extra mylar sheets, books, £599. Tel: (0253) 63745 (Blackpool).

TOYOTA KH901DX lace carriage, punchcards, manual, perfect, £185. Jones+Brother 585, as new, lace carriage, eight button repeat, ideal beginner, £75. Local tuition possible. Tel: 081-300 6903 (Orpington).

PASSAP Duomatic 80, four colour changer, Deco Forma, instruction books, patterns, £475. Would change for Brother 260 with ribber. Tel: (0353) 777672 (Ely, Cambs).

KNITMASTER 360KL machine, lace carriage, table, punch, punchcards, books, wool, £170. Colour changer, £40. Linker, £35. Transfer carriage £25. Weaving arm, £30. Tel: (0625) 872774 (South Stockport).

KNITMASTER 700 SRP50 ribber, lace carriage, colour changer, linker, transfer carriage, table, £450 ono. Knitmaster 155 chunky ribber, table, extras, £400 ono. Tel: (07717) 481 (New Pitsligo).

KNITMASTER 700K, excellent condition, used only twice, £250. Tel: (0708) 442887 after 6pm (Romford).

BROTHER 840 punchcard plus lace carriage, also ribber, colour changer, wool winder, table, hardly used, as new condition, all accessories plus instruction books, £450. Tel: (0462) 458744 (Hitchin).

NEW HOME Knitlock model 743, four reel overlock, new condition, £180. Tel: (0208) 831450 (Bodmin).

KNITMASTER HK160 punchcard knitting machine, £75. Tel: (0726) 870770 (Cornwall).

PASSAP U80, £40. Punch, £10. Forma, £50. Tel: (0253) 868638 (Nr Blackpool).

KNITMASTER 120 Chunky with ribber plus intarsia carriage and full set of accessories, inc set of 60 super chunky needles, bargain at £160. Tel: (0722) 329128 (Salisbury).

SINGER Ribber KR13, fits Memomatic, £40. Also Memomatic knitting machine KE2400, any offers for spares. Tel: (0825) 840209 (Lewes).

HAGUE Linker, tuition book, safety guard, excellent condition, £120. Tel: (0352) 770638 (Nr Chester).

TOYOTA 858 knitting machine, punchcard, lace carriage, accessories, patterns, as new, £110. Tel: (0703) 893716 (Southampton).

KNITMASTER 360 Ribber, transfer carriage, linker, lace carriage, lots of punchcards and other things, very good condition, gone electronic, £450 ono. Tel: (0274) 671793. (Bradford).

KNITMASTER 150/151 Chunky knitter and ribber, several books and wool, used twice, ex. con., boxed, £300 ono. Tel: (0222) 612630 (Cardiff).

KNITMASTER 360KL with lace carriage and Knitradar, £200 ono. SRP50 Ribber, £125 ono. Also table, intarsia carriage, transfer carriage, etc. Tel: (0372) 274141 evenings only (Leatherhead).

SINGER 2400 Memomatic, instruction book, lace carriage, £100 ono. Also Brother card punch, £6. Tel: (0284) 767066 (Bury St. Edmunds).

BROTHER 230 Chunky plus ribber, excellent condition, free transport, £300. Knitmaster Linker electronic, hardly used, DL100, £225. Tel: (033488) 332 (St. Andrews).

SINGER Freestyle 2331 Electronic with instruction manuals, patterns, transfer carriage, etc, £400. Tel: (0252) 542847 (Camberley).

KNITMASTER 155 Chunky punchcard machine and ribber, second tension mast, extra punchcards and chunky punchcard pattern book. Virtually unused, bargain at only £500. Tel: (0705) 389225 (Portsmouth).

PASSAP Duo 80, stand, heavy duty motor, U100, Deco, Form computer, books, wool, hole punch, cards, excellent condition, as new, hardly used, £1,400. Tel: (0562) 66757 (Kidderminster).

BROTHER 840 with ribber, lace carriage, intarsia carriage and cast off linker, as new, bargain, £400. Tel: (0278) 453420 (Bridgwater, Somerset).

KNITMASTER Zippy de luxe (standard gauge), complete with manual, punchcards and accessories. Knitmaster KR7 Radar, all excellent condition, £275. Tel: (0787) 281229 (Sudbury).

BROTHER 910 Mk II Electronic with lace carriage, good condition, £325. Tel: (0557) 31798 (Kirkcudbright).

SINGER "Big Nine", as new, in box, video instructions, large wool winder, £100. Tel: (0285) 861571 (Cirencester).

BROTHER 881 knitting machine with built in Knitradar, lace carriage, instruction manuals, £200 ono. Knitmaster single and double bed YC6 colour changer, £80 ono. Tel: 081-304 0487 (Sidcup).

BROTHER 840 punchcard knitting machine with lace carriage, £175. Knitmaster 360 with radar, £195. Both machines good condition. Tel: (0252) 835293 (Camberley).

BOND Chunky knitting machine, instruction book, still boxed, £65, or swap for Deco for Passap Duomatic. Tel: (0226) 384954 (Barnsley).

TOYOTA 901 tilt table, lace carriage, p/cards, manual, £190. Toyota KS898 tilt table, ribber, lace/Simulknit carriages, p/cards, Knitleader, £200. Tel: (0225) 753773 (Trowbridge).

BROTHER KH836, as new, plus punch, blank cards, books and magazines, £175, will deliver locally (Hampshire). Tel: (0703 610260 (Eastleigh).

PFAFF Duo 80 four colour changer plus U80. punch, books, hardly used, £495. Possibly deliver. Tel: (08846) 522 (Cullompton).

BOND Original with extension, row counter, intarsia keyplate, instructions and accessories included, good condition, £75 ono. Tel: 081-452 5616 (London).

KNITMASTER 360 Lace carriage, table, Knitradar, punchcards, operation manuals, knitting manuals, tuition tapes, wool winder, £300. Tel: (0372) 457578 (Bookham).

SILVER REED Chunky machine 155, chunky ribber 155. Power Knit 90, motor driver, never used, only two months old, £1,080. Tel: (0252) 710484 after 7.30 pm (Farnham).

OMNISTITCH machine, brand new, unwanted prize. Will personalise appliqué on knitwear, embroider quilt, create designs or follow patterns, value £700, sell for £350 cash. Tel: (0272) 866420 (Bristol).

TOYOTA K901 knitting machine with lace and intarsia carriages, multi-yarn breaker, Knit Tracer, new wool winder, £250 ono (will split). Tel: 081-751 6272 (Feltham).

BROTHER 230 Chunky, £90. Bond original model £25. Brother 830 punchcard £160, all working well, complete with manuals and tools. Tel: (0484) 515500 (Huddersfield).

BROTHER colour changer, KRC830, used twice, as new, bargain, £55. Tel: (04024) 50030 (Upminster).

SINGER 2310 double bed electronic machine, tuition, cassettes, video, books, transfer carriage, £350. Tel: (0407) 720696 (Holyhead, N. Wales).

BROTHER 710 with ribber, lace carriage, £130. Knitmaster 321, £95. Bond, £35. Tel: (0634) 865939 (Rochester).

KNITMASTER 160, ideal beginners, hardly used, accessories and punchcard book included, £80. Tel: (0273) 588271 (Peacehaven).

COURTAULDS industrial coned yarn, various colours and types, private purchase, £1.50 per cone. Tel: 081-942 5927 (New Malden).

PASSAP 6000E Electronic, rarely used, U70 video, vgc, £1,000 ono. Tel: 081-841 6542 (Northolt).

BROTHER 950i Ribber, colour changer, table, books, transfer carr, chunky plus ribber, table; Knitmaster 360L with weaving arm, intarsia punch, £1,000. Tel: (0485) 543070 (Kings Lynn).

SINGER Designer 2, knits double yarn, chunky mohair, tool and instruction book, boxed, as new, many patterns, family prefer fine yarns, £70 ono. Tel: 081-393 4473 (Epsom).

KNITMASTER KR7 Radar, £75 as new. Knitmaster LC2 lace carriage, £75 as new. Table, £8. Modern knitting books half price, Modern Knitting 87/89, 25p each. Tel: (0222) 499871 (Cardiff).

BROTHER KH230 Chunky machine, £200. Ribber for 230 Chunky, £100 or both for £280. In excellent condition and very easy to use. Tel: (0306) 876526 (Dorking).

KNITMASTER 700K Ribber, lace carriage, punchcard, intarsia, Knitradar, boxed, excellent condition, gone electronic, £450. Tel: 081-679 0847 (Norbury).

BROTHER KH891 Knitleader, lace carriage, punch, punchcards, intarsia carriage, table, excellent condition, going electronic, £280 ono. Tel: 081-393 4473 (Epsom).

BROTHER KH910 Mk II Electronic with ribber, not had much use, £500. Tel: 081-903 7870 (Wembley).

KNITMASTER 155 Chunky punchcard machine plus ribber and instruction manuals, £320. KR6 Knitradar and patterns £35, YC5 Colour changer, £35. Tel: (03317) 4391 (Derby).

KNITMASTER 560 Lace carriage, £399 ono. SRP50 Ribber, £125 ono. Table, £10. Lamp, £15, recently overhauled, never used since. Tel: 081-653 1921 (London).

BROTHER KH230 Chunky knitting machine and ribber, £300. Toyota 901 with lace carriage and plating unit, £250. Going electronic, both machines excellent condition. Tel: (0222) 792611 (Cardiff).

KNITMASTER Ribber SRP50, good condition, £50. Tel: 051-638 8745 (Wallasey).

BROTHER KH710 manual knitting machine. Complete with l/carriage, hardly used, £125 ono (or swap for Brother KH881 or KH910 punchcard). Tel: 081-564 8311 (Cranford)

BROTHER 830 with many punchcards and punch, £225 or near offer. Tel: (0702) 612729 (Southend-on-Sea).

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BROTHER KH910 Mk II Electronic with lace carriage, immaculate condition, will take garter carriage, £300. Tel: 081-467 7695 (Chislehurst).

BROTHER KH830 with lace carriage, punchcards and card punch, table, £175. KH850 Ribber, £150. Both little used. Tel: (0453) 547829 (Gloucestershire).

KNITMASTER 550 Electronic with ribber and Knitradar, including wool winder, mylar sheets, magazines, radar sheets, etc. Solid, real wood veneer cabinet, excellent condition, £650 ovno. Tel: (0703) 860215 (Southampton).

KNITMASTER 260 punchcard machine with Knitradar, instruction books, tools and punchcards, immaculate condition, £175. Tel: (04023) 47222 (Romford).

BROTHER 230 Chunky machine, exc. cond., swap for 881 Ribber or sell £150. Knitting magazines 87-91, offers. Tel: 061-748 2117 (Manchester).

KNITMASTER wool winder, excellent condition, £5, postage extra. Tel: (0733) 235264 (Peterborough).

KNITMASTER SRP60N Ribber, brand new, never used, boxed, £185. Knitmaster 302, good condition with pattern cards, £50. Tel: (0983) 840710 (Isle of Wight).

KNITMASTER 360L plus lace carriage, plus SRP50 Ribber, £425 ono, very clean, very well looked after. Tel: (0522) 722169 (Lincoln).

HAGUE Linker, as new, £140 ono. Brother Knitleader, £55 ono. Tel: (0400) 81137 (Grantham).

KNITTING machine cabinet, French made, excellent condition, surplus to requirements. Tel: (0684) 565784 (Malvern, Worcs).

MINIMATH Linker, vgc, £130. Deco punch, new, £12. Toyota intarsia K82A, new, £15. Knitmaster intarsia AG20, new, £12. Postage extra. Tel: (0242) 232509 (Cheltenham).

GOOD home needed for Knitmaster 700 with lace carriage, SRP60 Ribber, extra punchcards, hand punch. Full instruction manuals, £350 (owner gone electronic). Tel: (08675) 77143 (Oxford).

KNITMASTER 360, 24-stitch punchcards, ribber, lace carriage, intarsia carriage, colour changer, two American videos, table, £395 ono. Do not wish to split. North Cheshire area. Tel: (092575) 2572 (Lymm).

KNITMASTER 580 Electronic machine with P.E.1. design controller, £450. R.J.I. Jacquard carriage, £45. Ann Kite videos 4+5, £20 each. AG20 intarsia carriage, £12. R.T.I. transfer, £20. Tel: 051-677 0064 (Wirral).

KNITMASTER 151 Chunky knitting machine with built in intarsia plus ribber, pattern selector and table, excellent condition, seldom used, still boxed, £250. Tel: 021-705 0263 (Solihull).

KNITMASTER 700KL Lace carriage, radar, books, wool, table, SRP60N Ribber, all as new, £500 ono. Tel: (0865) 735712 (Oxford).

PFAFF 6000E retractable stand, instruction books, pattern books, can meet half-way, £1,000. Tel: (0833) 21271 (Durham).

BROTHER 830 Knitleader, lace carriage, books, cards, wool winder, table, good condition, £180 ono. Tel: (0798) 872463 (Pulborough).

PASSAP Duo 80 four colour changer Deco, Electra motor, instruction tapes, books, punchcards, wool winder, yarns, good condition. Tel: (03985) 540 (Devon).

KNITMASTER Zippy De-luxe Ribber, lace carriage, intarsia carriage and single motif CA7, punchcards, £375 ono. Tel: (0926) 314845 (Leamington).

TOYOTA K747, plus ribber, K450 table and accessories, plus two Bond machines and ribber, excellent condition, lot £165. Tel: (0424) 814884 (Hastings).

FOR SALE

SK580 Knitmaster Electronic with PE1 box, £450. Tel: (0285) 713526 (Cirencester).

PASSAP Duomatic 80 with four colour changer, Deco, U100E pattern lock, excellent condition, £520. Tel: (0793) 750158 evenings (Swindon).

TOYOTA KS901, ribber KR501, Knit Tracer, lace carriage, wool winder, table, instruction books, punchcards, various patterns, £399. Tel: (0268) 767309 (Wickford).

KNITMASTER Chunky 150 plus ribber and PS150 pattern selector. All instruction books plus tuition tapes used once, £300. Tel: (0272) 609884 (Bristol).

KNITMASTER 155 Chunky punchcard plus ribber, hardly used, £400. Also Pfaff Vario knits 4 ply and chunky never been used, £120. Tel: 021-360 0789 after 4 pm (Birmingham).

HAGUE electric linker, £175. Tel: (047567) 2229 (Largs, Ayrshire).

WENDY Phillips "Countryside Electronics", £2. Knitting patterns, £5. Batsford book "Hand and machine knitting", £2. Profitable machine knitting, 85p. Knitmaster intarsia pattern book, £2.50. Tel: (0865) 511057 (Oxford).

KNITMASTER 700 model, built in radar, intarsia, with SP60 Ribber, also lace carriage, weaving arm, also Mary Weaver books and lots more. Bargain, £400, can deliver (Scotland). Tel: (0592) 204024 (Kirkcaldy).

MODERN Machine Knitting from 1987 to 1991; Profitable Machine Knitting 1988 to 1991; Machine Knitting Monthly 1987 to 1991; Machine Knitting News 1986 to 1991, any offers. Tel: (0932) 851709 (Addlestone).

PFAFF Duo 80 with four colour changer and Deco, excellent condition, £300. Tel: (0469) 60668 (Nr. Grimsby).

ANN Kite's videos Nos 4 and 5 for Knitmaster electronics, Betamax, £45. Tel: (0302) 867192 (Doncaster).

KNITMASTER 580 Electronic with PE1, SRP60N ribber, YC6 colour changer, knitradar, transfer and intarsia carriages, linker, £850 ono. Tel: (0334) 72739 (Fife).

KNITMASTER 360 with radar built in, ribber, colour changer, transfer carriage, intarsia carriage, punchcards, punch, table, sell complete £400. Tel: (0532) 526971 (Leeds-Wakefield border).

TOYOTA S901, ribber KR501, Knit Tracer K33, table, all unused, £400. 24 cones Bramwell 4 ply, £40. Wanted Vogue Knitting books up to 1960. Not Vogue International. Tel: 071-701 2130 (London SE).

BROTHER 230 Chunky machine, ribber and table, vgc, £275. Tel: (0580) 712566 (Cranbrook).

TOYOTA 901 knitting machine plus ribber, vgc, £300, plus lace carriage. Tel: (0900) 62380 (Workington).

BOND Elite knitting machine with ribber, instructions, video, magazines and Bond pattern board, also some wool, £200 ono. Swissknitter knitting machine, £45. Buyer collects. Tel: (0423) 531625 (Harrogate)..

KNITMASTER Zippy de luxe, complete with manual, punchcards and accessories, vgc, £180 ono. Extra yarn rod/auto tension, £10. Tel: (0695) 578212 after 6 pm (Ormskirk).

SUPERBA double bed electronic knitting machine plus motor, extras, offers or swap for any chunky punchcard machine. Tel: 091-413 5690 (Tyne & Wear).

KNITMASTER 700 plus ribber attachment and lace carriage, hardly used, genuine reason for selling, £450. Tel: (0724) 840019 (Scunthorpe).

KNITMASTER 700KL including SRP60 Ribber and covers, built in radar, punch, punchcards, wool winder, table, long lamp, books and magazines, £550 ono. Tel: (0226) 243789 (Barnsley).

FOR SALE

PFAFF 6000E plus many extras, Tricofit, U100E, four colour changer, Designaknit computer programme, Duette and Pfaff magazines, £900 ono. Tel: (0904) 415200 (York).

SINGER Memo II double bed electronic knitting machine, transfer carriage, instruction books and tapes, £325. Also Knitmaster 321 with punchcard, instruction book, £90. Tel: (0405) 812666 (Doncaster).

KNITMASTER 700, ribber, radar, £450. Lace carriage, £80. YC6 colour (chan), £90. Transfer carriage, £40. Cast-off linker, £40. Cabinet bench (Horn), £95. Hague Linker (hand), £90. Chunky 150 ribber, £200. Tel: (0388) 776609 (Bishop Auckland).

SINGER KE2400 Lace carriage, instruction book, tools, etc, good condition, punchcard 24st, £100. Tel: (0284) 767066 (Bury St Edmunds).

BROTHER KH830 punchcard machine, table, lace carriage, card punch, wool winder, loads of punchcards, yarns and patterns, good working order, £185 ono. Also KA8310 linker, still boxed, instructions, £45 ono. Tel: (0254) 698296 evenings Samida (Blackburn).

BROTHER Electronic KH910 knitting machine, £300. Ribber KR830, £95. Tel: 021-449 0880 evenings only (Birmingham).

BROTHER KH836 with lace carriage and intarsia carriage, excellent condition, £260 ono. Tel: 081-363 1973 (Enfield).

BROTHER KH890 24 punchcard, table, lace carriage, intarsia carriage, de-knitter, punch, numerous punchcards, pattern books, instruction manual, all perfect condition, £250. Tel: (0491) 873702 (Reading).

HORN knitting machine cabinet, as new, £200 ono. Tel: 081-979 4821 (Hampton).

KNITMASTER Zippy plus lace carriage, Knitradar, ribber, stand, lamp, wool winder, punchcards, patterns, extra needles, excellent condition, bargain, £500. Tel: 021-502 1885 (Wednesbury).

PASSAP 6000E Electronic, purchased 1991, cost £1,345, absolutely as new. 660 built-in patterns, four colour changer, many extras, £950. Instruction offered, emigrating. Tel: (0747) 861387 (Wilts).

KNITMASTER 155 plus ribber, professionally serviced, £450. Unused intarsia carriage AG30, £20. KR7 Knitradar, £50. Motor drive without countdown hence £200. Tel: (0794) 40180 (Romsey).

BROTHER 260 Chunky machine with ribber, intarsia carriage, punchcards and books, hardly used, £400. Also PPD, £200. Tel: (0704) 894364 (Lancashire).

KNITMASTER Empisal 150 with instruction book, needle selector, manual, stitch pattern book, various patterns, old but very good condition, suit beginner, £50. Tel: (0732) 840288 (Maidstone).

SUPERBA S48 double bed electronic pattern box, programme cards, transfer carriage, wool winder, vgc, £250 ono. Tel: (0252) 872019 (Camberley).

BOND Classic plus knitting machine, includes intarsia keyplate, row counter, tools, video and instruction books, excellent condition, unwanted gift, £85. Tel: 081-368 3752 (North London).

KNITMASTER SC-1 Linker, will pack and send if needed, £30 ono. Tel: (0334) 54567 (Cupar, Fife).

BROTHER KH950i electronic plus garter carriage KG93, inc books, mylar sheets and video tape, all only four months old, £1,000 ono. Tel: (0943) 874009 (Ilkley).

AS NEW Jones+Brother 710 with lace carriage and pattern cards, £50. Tel: (0706) 877238 anytime (Bacup).

BROTHER KH260 and ribber, Knitleader, intarsia carriage, colour changer, table, all boxed, immaculate condition, £600. Tel: 081-892 5730 (Twickenham).

SWAP

BOND Classic with ext. bed, for Simple Frame 120. Write to No 1, The Haven, Aberamffra, Barmouth, Gwynedd LL42 1TD.

TOYOTA 901 Ribber, tilt table, lace and intarsia carriage, Knit Tracer plus extras for Brother Chunky 260 with R260 Ribber or sell £400. Willing to deliver within range. Tel: (0705) 325339 (Portsmouth).

BROTHER 270 Chunky Electronic for Brother 260 plus cash or sell £600. Tel: (0228) 49341 (Carlisle).

BROTHER KH710, unused with lace carriage for Hague Linker. Also Tomy child's knitting machine, boxed, hardly used, £18. Tel: (0753) 684199 (Slough).

KNITMASTER punchcard, all accessories, SRP60N Ribber. YC6 colour changer, lace, intarsia and transfer carriages, SC3 Linker, KR6 radar, for Singer 2331 Freestyle. Tel: (0509) 230159 (Loughborough).

WANTED

KR710 Ribber and any stitch and garment pattern books, for the Jones KH710, very reasonable prices, please, for pensioner, postage in advance if required. Tel: (0895) 632183 (Ruislip).

KEYTO bench, only must be in good condition, teak effect preferably. Tel: (0602) 215270 (Nottingham).

MOTOR for Passap/Pfaff E6000, Electra 3000A with countdown and y/brake. Money waiting. Tel: (0202) 665178 (Poole).

JOHN ALLENS Treasury of Machine Knitting Stitches and Machine Knitters Guide to Creating Fabrics by Susanna Lewis and Julia Weissman, garter bar, KRC900 c/changer. Tel: (0642) 552209. (Stockton).

BOND Classic with extensions, accessories, etc. Also machine knitting books and magazines to May '91. Contact Mrs D. Collis, Riverview, Langport, Somerset TA10 9JX.

BROTHER Ribber 830. Tel: (0474) 567450 (Gravesend).

CHUNKY machine with overhead feed, up to £50 cash. Tel: (0395) 274541 (Devon).

KNITMASTER Ribber SRP50 or SRP60, good condition. Tel: (0625) 520236 (Cheshire).

HAGUE Linker, reasonably priced please. Tel: (0734) 583305 (Reading).

BROTHER transfer carriage, reasonable. Tel: 091-413 5690 (Tyne & Wear).

WANTED by pensioner, cheap knitting machine, preferably punchcard, to pass away the hours and also knit for charities. Tel: (0984) 32294 (Taunton).

HAGUE Linker, hand version. Tel: (0444) 881323 (Sussex).

PASSAP model books. Reasonably priced please. Tel: (0527) 71308 (Bromsgrove).

TRANSFER carriage KA8300, also Linker KA8310, both for Brother KH840. Tel: (03967) 68456 (Co. Down, N. Ireland).

BROTHER knitting machine 890, 891, or 860 preferred. Plus any accessories. Distance no object. Tel: (0793) 536124 (Swindon).

KNITLEADER KL116, £40 or nearest, plus carriage. Tel: (08012) 5295 (Thrapston).

RIBBER to fit Knitmaster 120 Chunky. Must be in good condition and complete. Tel: (0453) 543009 (Dursley, Glos).

BOND Classic for OAP, must be cheap and be within easy distance of Lincoln. Tel: (0673) 62975 (Lincoln).

KEYTO cabinet or cabinet and bench or similar type of cabinet. Tel: (0922) 711489 (Walsall).

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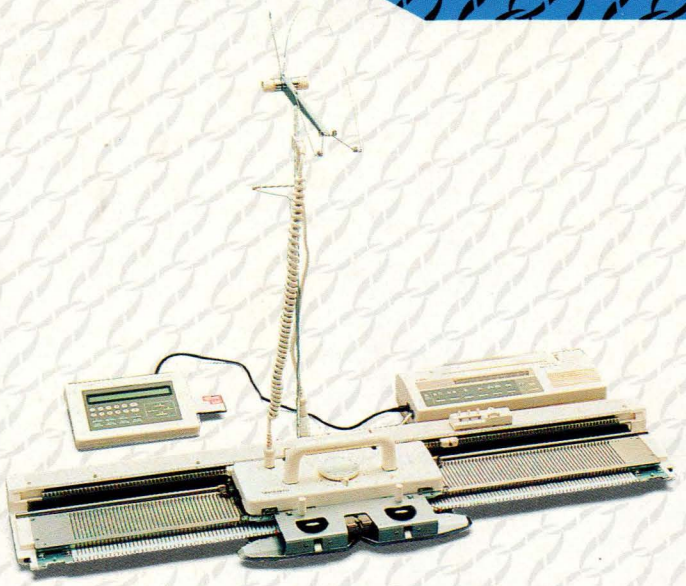
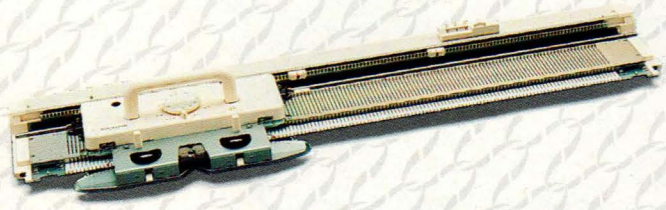
A PEARL OF
A SYSTEM FROM SILVER

And our low prices add up to a golden opportunity to boost dramatically both the speed and variety of your knitting projects.

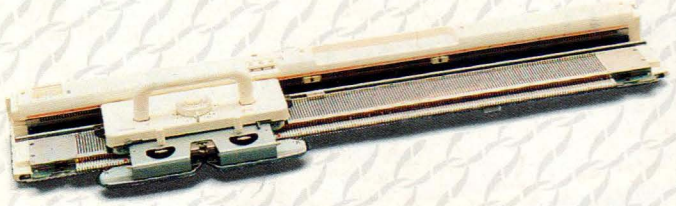
The Silver Modular Electronic Knitting System is based on four easy-to-change and whisper-quiet beds of the highest quality. So you'll be able to set just the right gauge and tension for any yarn - and each gives you a wide range of stitch options at the touch of a single lever. Attachments permit even greater stitch and pattern variety. And as the beds and attachments are each sold separately, you buy only as you need to.



SK 890 *Chunky gauge*
Knits Mohair, Aran, Chunky



SK 860 *Double Knitting gauge*
Knits 4 ply, DK, Aran, Mohair



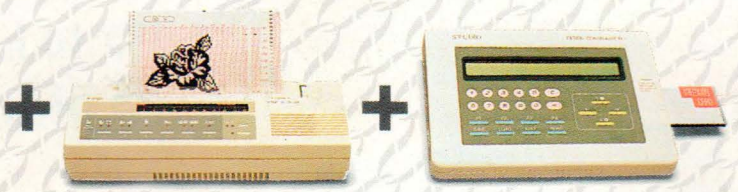
SK 840 *Standard gauge*
Knits 2 ply, 3 ply, 4 ply

SK 830 *Fine gauge*
Knits 1 ply, 2 ply, 3 ply

The Silver EC1 Pattern Controller gives you great flexibility.

Just one is needed for all four beds. Use any of the 50 pre-printed designs - or draw your own on easy-to-use pattern cards. Cards and books from previous models are also compatible. Additionally, you can vary your patterns at the touch of a button: from doubling the height to changing single bed patterns into Double Jacquard designs and more.
And the second Stitch Width Indicator lets you select any part of a pattern to create extra designs - with no programming required.

Silver EC1 *Pattern Controller*



Silver PE1 *Design Controller*

The Silver PE1 Design Controller means big is beautiful.

No longer will it be a problem to expand your designs: add this option to your system and you can increase your patterns from 60 stitches to the full width of the bed, control complicated 3 colour slip patterns with ease, and create non-repeating patterns of up to 220,000 stitches. When you've finished, you can store your patterns on the memory card - and you can also choose a pattern from one of the optional pre-programmed memory card sets.

With the new Silver Modular Electronic Knitting System, the only thing built in is choice - and learning to use it takes no time at all.

Silver. Putting you in control.

For a free demonstration visit your local Dealer NOW

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